Geometry   Name_____

Assignment

Date_____ Period_____

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: $\left(-2\frac{2}{7}, \frac{1}{2}\right)$, midpoint: $(-5, 1)$

   A) $(-1, -5)$ B) $\left(-7\frac{5}{7}, 1\frac{1}{2}\right)$

   C) $\left(-\frac{25}{28}, -2\right)$ D) $\left(1\frac{5}{14}, -\frac{1}{4}\right)$

2) Endpoint: $\left(-2\frac{1}{8}, -1\right)$, midpoint: $\left(4\frac{1}{2}, \frac{5}{3}\right)$

   A) $\left(-3\frac{5}{16}, -1\frac{1}{3}\right)$

   B) $\left(11\frac{1}{8}, 4\frac{1}{3}\right)$

   C) $\left(\frac{1}{2}, 6\frac{1}{2}\right)$

   D) $\left(-1\frac{9}{6}, 3\frac{1}{6}\right)$

3) Endpoint: $\left(\frac{11}{8}, -1\frac{1}{4}\right)$, midpoint: $\left(\frac{3}{4}, 1\frac{3}{5}\right)$

   A) $\left(-5\frac{1}{2}, -3\right)$ B) $\left(\frac{1}{16}, 1\frac{7}{40}\right)$

   C) $\left(\frac{1}{8}, 4\frac{9}{20}\right)$ D) $\left(\frac{5}{16}, -1\frac{17}{40}\right)$

4) Endpoint: $\left(-1\frac{2}{7}, -\frac{9}{8}\right)$, midpoint: $\left(\frac{2}{3}, 2\frac{1}{2}\right)$

   A) $\left(-\frac{111}{112}, 1\frac{7}{12}\right)$

   B) $\left(-\frac{16}{21}, -1\frac{13}{16}\right)$

   C) $\left(2\frac{4}{21}, 6\frac{1}{8}\right)$

   D) $\left(4\frac{1}{2}, 1\right)$

5) Endpoint: $\left(-\frac{13}{7}, \frac{4}{5}\right)$, midpoint: $\left(-3\frac{4}{5}, \frac{4}{3}\right)$

   A) $\left(-5\frac{26}{35}, 1\frac{13}{15}\right)$ B) $\left(-\frac{37}{70}, -1\frac{7}{30}\right)$

   C) $(-6, 1)$ D) $\left(\frac{34}{35}, -\frac{4}{15}\right)$

6) Endpoint: $\left(\frac{11}{6}, 3\frac{1}{3}\right)$, midpoint: $\left(\frac{2}{3}, \frac{3}{2}\right)$

   A) $\left(\frac{7}{12}, \frac{11}{12}\right)$ B) $(2, -2)$

   C) $\left(2\frac{7}{12}, 1\frac{1}{12}\right)$ D) $\left(-\frac{1}{2}, -\frac{1}{3}\right)$

7) Endpoint: $\left(\frac{7}{6}, 7\right)$, midpoint: $\left(0, \frac{5}{7}\right)$

   A) $\left(-1\frac{1}{6}, -5\frac{4}{7}\right)$ B) $\left(\frac{7}{12}, 3\frac{1}{7}\right)$

   C) $\left(6\frac{1}{2}, 3\right)$ D) $\left(4\frac{1}{12}, \frac{5}{14}\right)$

8) Endpoint: $\left(\frac{1}{3}, -\frac{5}{4}\right)$, midpoint: $\left(\frac{1}{3}, 2\frac{1}{2}\right)$

   A) $\left(\frac{1}{3}, 6\frac{1}{4}\right)$ B) $(-4, -3)$

   C) $\left(0, -1\frac{7}{8}\right)$ D) $\left(-\frac{11}{24}, 1\frac{5}{12}\right)$

9) Endpoint: $\left(\frac{7}{5}, \frac{7}{8}\right)$, midpoint: $\left(\frac{1}{2}, 3\frac{1}{4}\right)$

A) $\left(\frac{9}{20}, -1\frac{3}{16}\right)$ B) $\left(1\frac{11}{80}, 1\frac{7}{8}\right)$

C) $\left(-2\frac{1}{2}, -4\frac{1}{2}\right)$ D) $\left(-\frac{2}{5}, 5\frac{5}{8}\right)$

10) Endpoint: $\left(-2, -2\frac{7}{8}\right)$, midpoint: $\left(2\frac{1}{3}, -2\right)$

A) $\left(-2\frac{1}{6}, -\frac{7}{16}\right)$ B) $\left(-2\frac{7}{16}, \frac{1}{6}\right)$

C) $\left(0, -2\frac{1}{2}\right)$ D) $\left(6\frac{2}{3}, -1\frac{1}{8}\right)$

11) Endpoint: $\left(-\frac{3}{5}, 3\frac{5}{6}\right)$, midpoint: $\left(-1\frac{1}{5}, -\frac{5}{3}\right)$

A) $\left(1\frac{37}{60}, -1\frac{13}{30}\right)$ B) $\left(\frac{3}{10}, 2\frac{3}{4}\right)$

C) $\left(-1\frac{4}{5}, -7\frac{1}{6}\right)$ D) $(2, 7)$

12) Endpoint: $\left(-\frac{7}{4}, -1\frac{1}{3}\right)$, midpoint: $\left(-\frac{2}{3}, 4\frac{6}{7}\right)$

A) $\left(-\frac{13}{24}, -3\frac{2}{21}\right)$ B) $\left(4\frac{1}{2}, 3\frac{1}{2}\right)$

C) $\left(\frac{5}{12}, 11\frac{1}{21}\right)$ D) $\left(-1\frac{13}{24}, 2\frac{2}{21}\right)$

13) Endpoint: $\left(-\frac{4}{3}, 0\right)$, midpoint: $\left(\frac{4}{5}, \frac{15}{8}\right)$

A) $\left(-1\frac{1}{15}, -\frac{15}{16}\right)$ B) $\left(-\frac{2}{3}, 1\frac{27}{80}\right)$

C) $\left(-4\frac{1}{2}, 3\right)$ D) $\left(2\frac{14}{15}, 3\frac{3}{4}\right)$

14) Endpoint: $\left(0, 2\frac{1}{3}\right)$, midpoint: $\left(-2\frac{1}{2}, 2\frac{3}{4}\right)$

A) $(-2, -3)$ B) $\left(1\frac{1}{4}, -\frac{5}{24}\right)$

C) $\left(1\frac{1}{6}, \frac{1}{8}\right)$ D) $\left(-5, 3\frac{1}{6}\right)$

15) Endpoint: $\left(2, -2\frac{6}{7}\right)$, midpoint: $\left(-\frac{1}{5}, 4\frac{3}{8}\right)$

A) $\left(-2\frac{2}{5}, 11\frac{17}{28}\right)$ B) $\left(-\frac{3}{7}, 2\frac{7}{80}\right)$

C) $\left(1\frac{1}{2}, 5\right)$ D) $\left(1\frac{1}{10}, -3\frac{69}{112}\right)$

16) Endpoint: $(-1, -4)$, midpoint: $\left(0, -\frac{5}{6}\right)$

A) $\left(1, 2\frac{1}{3}\right)$ B) $\left(-5, -1\frac{1}{2}\right)$

C) $\left(-2\frac{1}{2}, -\frac{5}{12}\right)$ D) $\left(-\frac{1}{2}, -1\frac{7}{12}\right)$

17) Endpoint: $\left(-2, -\frac{5}{4}\right)$, midpoint: $\left(4\frac{1}{2}, -\frac{15}{8}\right)$

A) $\left(-3\frac{1}{4}, \frac{5}{16}\right)$ B) $\left(11, -2\frac{1}{2}\right)$

C) $\left(-1\frac{5}{8}, 1\frac{5}{16}\right)$ D) $\left(-1\frac{1}{2}, -\frac{1}{2}\right)$

18) Endpoint: $\left(-2, \frac{9}{5}\right)$, midpoint: $\left(-\frac{3}{8}, -2\right)$

A) $\left(-\frac{13}{16}, 1\frac{9}{10}\right)$ B) $\left(1\frac{1}{4}, -5\frac{4}{5}\right)$

C) $(-6, 2)$ D) $\left(-\frac{1}{10}, -1\frac{3}{16}\right)$

19) Endpoint: $\left(\dfrac{5}{8}, 0\right)$, midpoint: $\left(\dfrac{5}{8}, -2\dfrac{2}{3}\right)$

A) $\left(0, 1\dfrac{1}{3}\right)$ B) $\left(-2\dfrac{1}{2}, -1\right)$

C) $\left(\dfrac{5}{8}, -5\dfrac{1}{3}\right)$ D) $\left(\dfrac{5}{16}, -1\dfrac{1}{48}\right)$

20) Endpoint: $\left(-2\dfrac{5}{8}, \dfrac{1}{4}\right)$, midpoint: $(-1, 1)$

A) $\left(\dfrac{5}{8}, 1\dfrac{3}{4}\right)$ B) $\left(-2, 5\dfrac{1}{2}\right)$

C) $\left(-\dfrac{13}{16}, -\dfrac{3}{8}\right)$ D) $\left(-1\dfrac{3}{16}, 0\right)$

21) Endpoint: $\left(-2\dfrac{7}{8}, \dfrac{5}{3}\right)$, midpoint: $\left(\dfrac{11}{6}, 1\dfrac{1}{8}\right)$

A) $\left(-3\dfrac{1}{2}, 1\right)$ B) $\left(-2\dfrac{17}{48}, \dfrac{13}{48}\right)$

C) $\left(-\dfrac{29}{48}, 1\dfrac{23}{48}\right)$ D) $\left(6\dfrac{13}{24}, \dfrac{7}{12}\right)$

22) Endpoint: $\left(4\dfrac{2}{7}, 0\right)$, midpoint: $\left(\dfrac{5}{7}, -\dfrac{1}{2}\right)$

A) $\left(-2\dfrac{6}{7}, -1\right)$ B) $\left(1\dfrac{11}{14}, \dfrac{1}{4}\right)$

C) $\left(2\dfrac{1}{7}, \dfrac{3}{28}\right)$ D) $\left(4\dfrac{1}{2}, -2\right)$

23) Endpoint: $\left(3\dfrac{4}{7}, -\dfrac{4}{7}\right)$, midpoint: $\left(\dfrac{7}{4}, 1\dfrac{1}{2}\right)$

A) $\left(-\dfrac{1}{14}, 3\dfrac{4}{7}\right)$ B) $\left(1\dfrac{1}{2}, 1\dfrac{5}{8}\right)$

C) $(4, 2)$ D) $\left(\dfrac{51}{56}, -1\dfrac{1}{28}\right)$

24) Endpoint: $\left(2\dfrac{5}{6}, -\dfrac{7}{6}\right)$, midpoint: $\left(2\dfrac{3}{8}, 1\dfrac{1}{5}\right)$

A) $\left(-3\dfrac{1}{2}, -3\right)$ B) $\left(\dfrac{5}{6}, 1\dfrac{63}{80}\right)$

C) $\left(\dfrac{11}{48}, -1\dfrac{11}{60}\right)$ D) $\left(1\dfrac{11}{12}, 3\dfrac{17}{30}\right)$

Answers to Assignment (ID: 1)

1) B	2) B	3) C	4) C
5) A	6) D	7) A	8) A
9) D	10) D	11) C	12) C
13) D	14) D	15) A	16) A
17) B	18) B	19) C	20) A
21) D	22) A	23) A	24) D

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Geometry   Name_____

Assignment   Date_____ Period_____

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: $\left(-3\frac{4}{5}, -3\frac{1}{5}\right)$, midpoint: $\left(\frac{2}{3}, -\frac{5}{3}\right)$

   A) $\left(-3\frac{1}{2}, -\frac{1}{2}\right)$ B) $\left(5\frac{2}{15}, -\frac{2}{15}\right)$

   C) $\left(-2\frac{7}{30}, -\frac{23}{30}\right)$ D) $\left(4\frac{1}{2}, 2\frac{1}{2}\right)$

2) Endpoint: $\left(-1\frac{1}{6}, -1\frac{1}{2}\right)$, midpoint: $\left(\frac{9}{7}, \frac{7}{5}\right)$

   A) $\left(-1\frac{1}{3}, 1\frac{12}{35}\right)$ B) $\left(3\frac{31}{42}, 4\frac{3}{10}\right)$

   C) $(6, 7)$ D) $\left(-1\frac{19}{84}, -1\frac{9}{20}\right)$

3) Endpoint: $\left(-2\frac{1}{6}, -6\frac{5}{6}\right)$, midpoint: $\left(\frac{5}{3}, \frac{1}{8}\right)$

   A) $\left(5\frac{1}{2}, 7\frac{1}{12}\right)$ B) $\left(-1\frac{11}{12}, -3\frac{23}{48}\right)$

   C) $\left(-4\frac{1}{2}, \frac{43}{48}\right)$ D) $(0, -3)$

4) Endpoint: $\left(1\frac{5}{6}, 1\frac{2}{3}\right)$, midpoint: $\left(-\frac{4}{3}, 1\right)$

   A) $(-3, 4)$ B) $\left(1\frac{3}{4}, -\frac{1}{6}\right)$

   C) $\left(1\frac{7}{12}, \frac{1}{3}\right)$ D) $\left(-4\frac{1}{2}, \frac{1}{3}\right)$

5) Endpoint: $\left(4\frac{4}{5}, -2\right)$, midpoint: $\left(0, 3\frac{3}{4}\right)$

   A) $\left(2\frac{2}{5}, -2\frac{7}{8}\right)$ B) $(2, 2)$

   C) $\left(1\frac{2}{5}, 1\frac{7}{8}\right)$ D) $\left(-4\frac{4}{5}, 9\frac{1}{2}\right)$

6) Endpoint: $\left(-2\frac{1}{4}, \frac{2}{3}\right)$, midpoint: $\left(1\frac{1}{2}, 1\right)$

   A) $\left(5\frac{1}{4}, 1\frac{1}{3}\right)$ B) $(-1, 5)$

   C) $\left(-1\frac{7}{8}, -\frac{1}{6}\right)$ D) $\left(-\frac{19}{24}, 1\frac{1}{4}\right)$

7) Endpoint: $(1, -1)$, midpoint: $\left(2\frac{3}{4}, -\frac{1}{5}\right)$

   A) $\left(-\frac{7}{8}, -\frac{2}{5}\right)$ B) $\left(0, 1\frac{11}{40}\right)$

   C) $\left(4\frac{1}{2}, \frac{3}{5}\right)$ D) $(-1, 5)$

8) Endpoint: $\left(1\frac{2}{3}, -1\frac{1}{6}\right)$, midpoint: $\left(\frac{10}{7}, \frac{1}{3}\right)$

   A) $\left(\frac{1}{4}, \frac{37}{42}\right)$ B) $\left(\frac{5}{42}, -\frac{3}{4}\right)$

   C) $\left(-5\frac{1}{2}, -1\frac{1}{2}\right)$ D) $\left(1\frac{4}{21}, 1\frac{5}{6}\right)$

9) Endpoint: $\left(-2\frac{1}{3}, 4\frac{1}{2}\right)$, midpoint: $\left(\frac{9}{7}, -2\right)$

A) $\left(4\frac{19}{21}, -8\frac{1}{2}\right)$ B) $\left(5, 5\frac{1}{2}\right)$

C) $\left(1\frac{1}{12}, -\frac{5}{14}\right)$ D) $\left(-1\frac{17}{21}, 3\frac{1}{4}\right)$

10) Endpoint: $\left(\frac{4}{3}, -\frac{1}{6}\right)$, midpoint: $\left(1\frac{5}{7}, \frac{3}{4}\right)$

A) $\left(-\frac{4}{21}, -\frac{11}{24}\right)$ B) $(0, -6)$

C) $\left(\frac{7}{12}, 1\frac{13}{56}\right)$ D) $\left(2\frac{2}{21}, 1\frac{2}{3}\right)$

11) Endpoint: $\left(-\frac{3}{2}, 1\frac{5}{7}\right)$, midpoint: $\left(5, -1\frac{5}{6}\right)$

A) $\left(-3\frac{1}{4}, 1\frac{65}{84}\right)$ B) $\left(11\frac{1}{2}, -5\frac{8}{21}\right)$

C) $\left(1\frac{1}{2}, \frac{1}{2}\right)$ D) $\left(\frac{3}{28}, 1\frac{7}{12}\right)$

12) Endpoint: $\left(-\frac{7}{4}, -\frac{6}{5}\right)$, midpoint: $\left(-\frac{5}{4}, 2\frac{2}{3}\right)$

A) $\left(-\frac{3}{4}, 6\frac{8}{15}\right)$ B) $\left(-\frac{1}{4}, -1\frac{14}{15}\right)$

C) $(-1, -3)$ D) $\left(-1\frac{19}{40}, \frac{17}{24}\right)$

13) Endpoint: $\left(\frac{3}{2}, 3\frac{1}{2}\right)$, midpoint: $\left(\frac{6}{5}, -2\frac{3}{4}\right)$

A) $\left(\frac{9}{10}, -9\right)$ B) $\left(2\frac{1}{2}, -\frac{31}{40}\right)$

C) $\left(\frac{3}{20}, 3\frac{1}{8}\right)$ D) $(-5, -2)$

14) Endpoint: $\left(-\frac{1}{2}, -3\frac{2}{3}\right)$, midpoint: $\left(3\frac{1}{6}, -\frac{7}{4}\right)$

A) $\left(-1\frac{5}{6}, -\frac{23}{24}\right)$ B) $\left(-2\frac{1}{12}, \frac{17}{24}\right)$

C) $\left(6\frac{5}{6}, \frac{1}{6}\right)$ D) $\left(-5, \frac{1}{2}\right)$

15) Endpoint: $\left(-4, -\frac{4}{3}\right)$, midpoint: $\left(0, \frac{5}{8}\right)$

A) $\left(4, 2\frac{7}{12}\right)$ B) $(-4, -1)$

C) $\left(-2\frac{2}{3}, \frac{5}{16}\right)$ D) $\left(-2, -\frac{47}{48}\right)$

16) Endpoint: $\left(\frac{7}{8}, 1\frac{2}{3}\right)$, midpoint: $\left(0, -\frac{1}{6}\right)$

A) $\left(-\frac{7}{8}, -2\right)$ B) $\left(\frac{7}{16}, \frac{11}{12}\right)$

C) $\left(1\frac{13}{48}, -\frac{1}{12}\right)$ D) $\left(-1\frac{1}{2}, \frac{1}{2}\right)$

17) Endpoint: $\left(\frac{3}{7}, -\frac{15}{8}\right)$, midpoint: $\left(1\frac{3}{8}, \frac{7}{6}\right)$

A) $\left(-6\frac{1}{2}, 5\frac{1}{2}\right)$ B) $\left(-\frac{53}{112}, -1\frac{25}{48}\right)$

C) $\left(2\frac{9}{28}, 4\frac{5}{24}\right)$ D) $\left(-\frac{81}{112}, 1\frac{13}{48}\right)$

18) Endpoint: $\left(\frac{5}{6}, 1\frac{3}{5}\right)$, midpoint: $\left(1, \frac{7}{6}\right)$

A) $(1, -2)$ B) $\left(1\frac{1}{6}, \frac{11}{15}\right)$

C) $\left(-\frac{1}{12}, \frac{13}{60}\right)$ D) $\left(1\frac{13}{60}, 1\frac{1}{12}\right)$

19) Endpoint: $\left(-\dfrac{8}{7},\ 4\dfrac{2}{3}\right)$, midpoint: $\left(\dfrac{7}{4},\ -6\right)$

 A) $\left(6\dfrac{1}{2},\ -1\dfrac{1}{2}\right)$ B) $\left(4\dfrac{9}{14},\ -16\dfrac{2}{3}\right)$

 C) $\left(1\dfrac{16}{21},\ -2\dfrac{1}{8}\right)$ D) $\left(-1\dfrac{25}{56},\ 5\dfrac{1}{3}\right)$

20) Endpoint: $\left(-2,\ -\dfrac{1}{7}\right)$, midpoint: $\left(-\dfrac{3}{2},\ -2\dfrac{5}{6}\right)$

 A) $\left(-\dfrac{1}{4},\ 1\dfrac{29}{84}\right)$ B) $\left(-1\dfrac{1}{14},\ -2\dfrac{1}{6}\right)$

 C) $\left(2\dfrac{1}{2},\ 2\right)$ D) $\left(-1,\ -5\dfrac{11}{21}\right)$

21) Endpoint: $\left(-\dfrac{4}{5},\ 4\dfrac{5}{6}\right)$, midpoint: $\left(-\dfrac{3}{2},\ 1\right)$

 A) $\left(2\dfrac{1}{60},\ -\dfrac{1}{4}\right)$ B) $\left(3\dfrac{1}{2},\ 3\dfrac{1}{2}\right)$

 C) $\left(\dfrac{7}{20},\ 1\dfrac{11}{12}\right)$ D) $\left(-2\dfrac{1}{5},\ -2\dfrac{5}{6}\right)$

22) Endpoint: $\left(-\dfrac{1}{5},\ -6\right)$, midpoint: $\left(3\dfrac{5}{6},\ 2\dfrac{5}{6}\right)$

 A) $\left(-3\dfrac{1}{10},\ 3\dfrac{1}{3}\right)$ B) $\left(-2\dfrac{1}{60},\ -4\dfrac{5}{12}\right)$

 C) $\left(1\dfrac{1}{2},\ -6\right)$ D) $\left(7\dfrac{13}{15},\ 11\dfrac{2}{3}\right)$

23) Endpoint: $\left(\dfrac{7}{4},\ \dfrac{1}{2}\right)$, midpoint: $\left(1,\ \dfrac{5}{4}\right)$

 A) $\left(\dfrac{1}{4},\ 2\right)$ B) $\left(\dfrac{3}{8},\ -\dfrac{3}{8}\right)$

 C) $\left(-\dfrac{1}{2},\ -2\right)$ D) $\left(1\dfrac{1}{8},\ 1\dfrac{1}{8}\right)$

24) Endpoint: $\left(\dfrac{3}{2},\ \dfrac{3}{4}\right)$, midpoint: $\left(2\dfrac{2}{5},\ \dfrac{1}{6}\right)$

 A) $(4,\ 2)$ B) $\left(3\dfrac{3}{10},\ -\dfrac{5}{12}\right)$

 C) $\left(1\dfrac{1}{8},\ 1\dfrac{17}{60}\right)$ D) $\left(-\dfrac{9}{20},\ \dfrac{7}{24}\right)$

Answers to Assignment (ID: 2)

1) B   2) B   3) A   4) D
5) D   6) A   7) C   8) D
9) A   10) D   11) B   12) A
13) A   14) C   15) A   16) A
17) C   18) B   19) B   20) D
21) D   22) D   23) A   24) B

Geometry　　　　　　　　　　　　　　Name_____

Assignment

Date_____ Period_____

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: $\left(\frac{3}{4}, 2\frac{2}{3}\right)$, midpoint: $\left(\frac{1}{2}, 4\frac{5}{6}\right)$

　A) $(-2, 0)$　　　　B) $\left(\frac{1}{8}, -1\frac{1}{12}\right)$

　C) $\left(\frac{1}{4}, 7\right)$　　　　D) $\left(1\frac{17}{24}, 2\frac{2}{3}\right)$

2) Endpoint: $\left(2\frac{2}{5}, -2\right)$, midpoint: $\left(4\frac{5}{8}, 3\frac{4}{5}\right)$

　A) $\left(\frac{1}{5}, 4\frac{17}{80}\right)$　　　　B) $\left(6\frac{1}{2}, 6\frac{1}{2}\right)$

　C) $\left(6\frac{17}{20}, 9\frac{3}{5}\right)$　　　　D) $\left(-1\frac{9}{80}, -2\frac{9}{10}\right)$

3) Endpoint: $\left(1\frac{1}{4}, -2\frac{4}{5}\right)$, midpoint: $\left(2\frac{7}{8}, 2\frac{7}{8}\right)$

　A) $\left(-\frac{13}{16}, -2\frac{67}{80}\right)$　　　B) $\left(-\frac{31}{40}, 2\frac{7}{8}\right)$

　C) $\left(4\frac{1}{2}, 8\frac{11}{20}\right)$　　　　D) $\left(-1\frac{1}{2}, 1\right)$

4) Endpoint: $\left(-2\frac{2}{3}, -2\frac{1}{8}\right)$, midpoint: $\left(4\frac{1}{4}, \frac{9}{5}\right)$

　A) $\left(11\frac{1}{6}, 5\frac{29}{40}\right)$　　　B) $\left(-2\frac{19}{48}, 3\frac{1}{40}\right)$

　C) $\left(-2\frac{1}{2}, -5\frac{1}{2}\right)$　　　D) $\left(-3\frac{11}{24}, -1\frac{77}{80}\right)$

5) Endpoint: $\left(-3\frac{1}{2}, -2\frac{5}{7}\right)$, midpoint: $\left(-3\frac{1}{4}, \frac{1}{2}\right)$

　A) $\left(-3\frac{3}{28}, -1\frac{3}{8}\right)$　　　B) $\left(-3, 3\frac{5}{7}\right)$

　C) $\left(-3, 2\frac{1}{2}\right)$　　　　B) $\left(-\frac{1}{8}, -1\frac{17}{28}\right)$

6) Endpoint: $\left(-1\frac{1}{2}, -\frac{11}{6}\right)$, midpoint: $\left(4\frac{2}{3}, -3\frac{1}{2}\right)$

　A) $\left(10\frac{5}{6}, -5\frac{1}{6}\right)$　　　B) $\left(-3\frac{1}{12}, \frac{5}{6}\right)$

　C) $\left(2\frac{1}{2}, 1\right)$　　　　D) $\left(-1\frac{2}{3}, \frac{7}{12}\right)$

7) Endpoint: $\left(-3\frac{1}{2}, -2\frac{1}{4}\right)$, midpoint: $\left(2, 3\frac{2}{3}\right)$

　A) $\left(4\frac{1}{2}, 4\right)$　　　　B) $\left(7\frac{1}{2}, 9\frac{7}{12}\right)$

　C) $\left(-2\frac{7}{8}, 2\frac{5}{6}\right)$　　　D) $\left(-2\frac{3}{4}, -2\frac{23}{24}\right)$

8) Endpoint: $\left(2\frac{1}{2}, -\frac{3}{5}\right)$, midpoint: $\left(4\frac{1}{5}, \frac{1}{3}\right)$

　A) $\left(-\frac{17}{20}, -\frac{7}{15}\right)$　　　B) $\left(6\frac{1}{2}, -1\frac{1}{2}\right)$

　C) $\left(5\frac{9}{10}, 1\frac{4}{15}\right)$　　　D) $\left(\frac{19}{20}, 2\frac{4}{15}\right)$

9) Endpoint: $\left(\dfrac{7}{8}, 2\dfrac{4}{5}\right)$, midpoint: $\left(2\dfrac{1}{4}, 2\dfrac{1}{2}\right)$

  A) $\left(-\dfrac{11}{16}, \dfrac{3}{20}\right)$ B) $\left(3\dfrac{5}{8}, 2\dfrac{1}{5}\right)$

  C) $\left(1\dfrac{67}{80}, 2\dfrac{3}{8}\right)$ D) $(3, 0)$

10) Endpoint: $\left(-1\dfrac{5}{8}, -2\dfrac{1}{4}\right)$, midpoint: $\left(-\dfrac{7}{6}, \dfrac{5}{3}\right)$

  A) $(-6, -3)$ B) $\left(-\dfrac{17}{24}, 5\dfrac{7}{12}\right)$

  C) $\left(-1\dfrac{15}{16}, \dfrac{1}{4}\right)$ D) $\left(-\dfrac{11}{48}, -1\dfrac{23}{24}\right)$

11) Endpoint: $\left(-3\dfrac{5}{7}, 2\dfrac{1}{8}\right)$, midpoint: $\left(-3\dfrac{2}{7}, -6\right)$

  A) $\left(-\dfrac{89}{112}, -4\dfrac{9}{14}\right)$ B) $\left(\dfrac{1}{2}, 5\right)$

  C) $\left(-\dfrac{3}{14}, 4\dfrac{1}{16}\right)$ D) $\left(-2\dfrac{6}{7}, -14\dfrac{1}{8}\right)$

12) Endpoint: $\left(2\dfrac{5}{7}, 8\right)$, midpoint: $\left(-1, -1\dfrac{2}{5}\right)$

  A) $\left(1\dfrac{6}{7}, 4\dfrac{7}{10}\right)$ B) $\left(-4\dfrac{5}{7}, -10\dfrac{4}{5}\right)$

  C) $\left(5\dfrac{5}{14}, -1\dfrac{1}{5}\right)$ D) $\left(1\dfrac{1}{2}, -3\dfrac{1}{2}\right)$

13) Endpoint: $\left(4\dfrac{6}{7}, \dfrac{10}{7}\right)$, midpoint: $\left(-\dfrac{4}{3}, 2\dfrac{1}{2}\right)$

  A) $\left(3, -\dfrac{1}{2}\right)$ B) $\left(3\dfrac{2}{21}, -\dfrac{15}{28}\right)$

  C) $\left(3\dfrac{1}{7}, \dfrac{7}{12}\right)$ D) $\left(-7\dfrac{11}{21}, 3\dfrac{4}{7}\right)$

14) Endpoint: $\left(-1\dfrac{4}{5}, \dfrac{5}{6}\right)$, midpoint: $\left(2\dfrac{4}{5}, -2\right)$

  A) $\left(7\dfrac{2}{5}, -4\dfrac{5}{6}\right)$ B) $\left(-2\dfrac{3}{10}, 1\dfrac{5}{12}\right)$

  C) $\left(-\dfrac{29}{60}, \dfrac{2}{5}\right)$ D) $\left(-3\dfrac{1}{2}, -1\right)$

15) Endpoint: $\left(3\dfrac{5}{6}, -2\dfrac{4}{5}\right)$, midpoint: $\left(\dfrac{9}{8}, \dfrac{2}{7}\right)$

  A) $\left(\dfrac{31}{60}, \dfrac{79}{112}\right)$ B) $\left(-1\dfrac{7}{12}, 3\dfrac{13}{35}\right)$

  C) $\left(1\dfrac{17}{48}, -1\dfrac{19}{35}\right)$ D) $\left(-3\dfrac{1}{2}, -1\dfrac{1}{2}\right)$

16) Endpoint: $\left(3\dfrac{2}{7}, 1\right)$, midpoint: $\left(8, \dfrac{11}{6}\right)$

  A) $\left(12\dfrac{5}{7}, 2\dfrac{2}{3}\right)$ B) $\left(-2\dfrac{5}{14}, -\dfrac{5}{12}\right)$

  C) $\left(2\dfrac{1}{7}, 4\dfrac{11}{12}\right)$ D) $\left(-4\dfrac{1}{2}, -\dfrac{1}{2}\right)$

17) Endpoint: $\left(5, -1\dfrac{5}{7}\right)$, midpoint: $\left(-2\dfrac{6}{7}, -2\right)$

  A) $\left(3\dfrac{13}{14}, \dfrac{1}{7}\right)$ B) $\left(-10\dfrac{5}{7}, -2\dfrac{2}{7}\right)$

  C) $\left(1\dfrac{9}{14}, -2\dfrac{3}{7}\right)$ D) $(-1, 4)$

18) Endpoint: $\left(-\dfrac{9}{5}, -\dfrac{15}{8}\right)$, midpoint: $\left(-\dfrac{11}{8}, 4\dfrac{1}{2}\right)$

  A) $\left(-\dfrac{17}{80}, -3\dfrac{3}{16}\right)$ B) $(-2, 2)$

  C) $\left(-1\dfrac{67}{80}, 1\dfrac{9}{16}\right)$ D) $\left(-\dfrac{19}{20}, 10\dfrac{7}{8}\right)$

19) Endpoint: $\left(-\dfrac{9}{5}, -1\dfrac{1}{2}\right)$, midpoint: $(-1, -1)$

A) $(8, -4)$ B) $\left(-1\dfrac{13}{20}, -1\right)$

C) $\left(-\dfrac{1}{5}, -\dfrac{1}{2}\right)$ D) $\left(-\dfrac{2}{5}, -\dfrac{1}{4}\right)$

20) Endpoint: $\left(1, -1\dfrac{4}{7}\right)$, midpoint: $\left(\dfrac{3}{2}, 5\right)$

A) $\left(2, 11\dfrac{4}{7}\right)$ B) $\left(-\dfrac{2}{7}, 3\dfrac{1}{4}\right)$

C) $\left(-\dfrac{1}{4}, -3\dfrac{2}{7}\right)$ D) $\left(3\dfrac{1}{2}, 0\right)$

21) Endpoint: $\left(7, \dfrac{3}{4}\right)$, midpoint: $\left(3\dfrac{1}{2}, -5\right)$

A) $(-3, 5)$ B) $\left(0, -10\dfrac{3}{4}\right)$

C) $\left(1\dfrac{3}{4}, 2\dfrac{7}{8}\right)$ D) $\left(3\dfrac{7}{8}, -\dfrac{3}{4}\right)$

22) Endpoint: $(1, -1)$, midpoint: $\left(\dfrac{2}{3}, \dfrac{5}{3}\right)$

A) $\left(\dfrac{1}{3}, 4\dfrac{1}{3}\right)$ B) $\left(3\dfrac{1}{2}, 1\right)$

C) $\left(\dfrac{1}{6}, -1\dfrac{1}{3}\right)$ D) $\left(0, 1\dfrac{1}{6}\right)$

23) Endpoint: $\left(-\dfrac{5}{4}, -1\dfrac{3}{4}\right)$, midpoint: $\left(\dfrac{7}{4}, -2\dfrac{2}{5}\right)$

A) $(0, -2)$ B) $\left(-1\dfrac{1}{2}, \dfrac{13}{40}\right)$

C) $\left(-1\dfrac{1}{2}, -\dfrac{13}{40}\right)$ D) $\left(4\dfrac{3}{4}, -3\dfrac{1}{20}\right)$

24) Endpoint: $\left(-\dfrac{1}{2}, -1\dfrac{1}{3}\right)$, midpoint: $\left(\dfrac{5}{7}, 1\dfrac{1}{4}\right)$

A) $\left(1\dfrac{13}{14}, 3\dfrac{5}{6}\right)$ B) $(5, 3)$

C) $\left(-\dfrac{17}{28}, -1\dfrac{7}{24}\right)$ D) $\left(-\dfrac{11}{12}, \dfrac{55}{56}\right)$

Answers to Assignment (ID: 3)

1) C
2) C
3) C
4) A
5) B
6) A
7) B
8) C
9) B
10) B
11) D
12) B
13) D
14) A
15) B
16) A
17) B
18) D
19) C
20) A
21) B
22) A
23) D
24) A

Geometry   Name_____

Assignment   Date_____ Period_____

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: $\left(-7, -3\frac{1}{4}\right)$, midpoint: $(-2, -7)$

   A) $\left(3, -10\frac{3}{4}\right)$ B) $\left(-5\frac{1}{8}, -4\frac{1}{2}\right)$

   C) $\left(-2\frac{1}{2}, 1\frac{7}{8}\right)$ D) $\left(\frac{1}{2}, -8\right)$

2) Endpoint: $\left(-\frac{3}{8}, -7\right)$, midpoint: $\left(-\frac{7}{5}, -\frac{5}{4}\right)$

   A) $\left(-3\frac{11}{16}, -1\frac{13}{40}\right)$ B) $\left(-2\frac{17}{40}, 4\frac{1}{2}\right)$

   C) $\left(-1\frac{1}{2}, -4\right)$ D) $\left(\frac{41}{80}, -2\frac{7}{8}\right)$

3) Endpoint: $\left(-\frac{5}{4}, 4\frac{1}{2}\right)$, midpoint: $\left(\frac{3}{4}, \frac{6}{7}\right)$

   A) $\left(2\frac{3}{4}, -2\frac{11}{14}\right)$ B) $\left(1\frac{5}{8}, \frac{45}{56}\right)$

   C) $\left(3\frac{1}{2}, \frac{1}{2}\right)$ D) $\left(-1, 1\frac{23}{28}\right)$

4) Endpoint: $\left(2, \frac{6}{5}\right)$, midpoint: $\left(-2\frac{3}{7}, 2\frac{3}{5}\right)$

   A) $\left(2\frac{3}{14}, -\frac{7}{10}\right)$ B) $\left(-6\frac{6}{7}, 4\right)$

   C) $\left(1\frac{3}{5}, \frac{3}{35}\right)$ D) $\left(1\frac{1}{2}, 2\frac{1}{2}\right)$

5) Endpoint: $\left(-\frac{11}{7}, -\frac{7}{4}\right)$, midpoint: $\left(-3\frac{3}{4}, -\frac{1}{5}\right)$

   A) $\left(-1\frac{37}{56}, -1\frac{39}{40}\right)$ B) $\left(1\frac{5}{56}, -\frac{31}{40}\right)$

   C) $\left(-5\frac{13}{14}, 1\frac{7}{20}\right)$ D) $\left(\frac{1}{2}, -7\right)$

6) Endpoint: $\left(\frac{8}{7}, 2\frac{1}{6}\right)$, midpoint: $\left(0, 2\frac{5}{6}\right)$

   A) $\left(\frac{4}{7}, -\frac{1}{3}\right)$ B) $\left(-\frac{1}{2}, \frac{1}{2}\right)$

   C) $\left(1\frac{55}{84}, 1\frac{5}{12}\right)$ D) $\left(-1\frac{1}{7}, 3\frac{1}{2}\right)$

7) Endpoint: $\left(3\frac{3}{7}, 2\right)$, midpoint: $\left(1\frac{4}{5}, 1\frac{4}{7}\right)$

   A) $\left(-1\frac{1}{2}, 3\right)$ B) $\left(2\frac{5}{7}, 1\frac{24}{35}\right)$

   C) $\left(\frac{57}{70}, \frac{3}{14}\right)$ D) $\left(\frac{6}{35}, 1\frac{1}{7}\right)$

8) Endpoint: $\left(\frac{11}{8}, \frac{3}{2}\right)$, midpoint: $\left(-1\frac{1}{3}, -\frac{1}{5}\right)$

   A) $\left(0, -1\frac{1}{2}\right)$ B) $\left(1\frac{17}{48}, \frac{17}{20}\right)$

   C) $\left(1\frac{7}{16}, -\frac{23}{30}\right)$ D) $\left(-4\frac{1}{24}, -1\frac{9}{10}\right)$

9) Endpoint: $\left(\frac{1}{6}, 1\frac{1}{7}\right)$, midpoint: $\left(\frac{1}{3}, -1\frac{3}{5}\right)$

   A) $\left(-5, -\frac{1}{2}\right)$ B) $\left(-\frac{1}{12}, 1\frac{13}{35}\right)$

   C) $\left(\frac{1}{2}, -4\frac{12}{35}\right)$ D) $\left(\frac{55}{84}, -\frac{19}{30}\right)$

10) Endpoint: $\left(3\frac{1}{6}, \frac{8}{5}\right)$, midpoint: $\left(1, 2\frac{3}{8}\right)$

   A) $\left(0, \frac{1}{2}\right)$ B) $\left(1\frac{1}{12}, -\frac{31}{80}\right)$

   C) $\left(2\frac{23}{60}, 1\frac{11}{16}\right)$ D) $\left(-1\frac{1}{6}, 3\frac{3}{20}\right)$

11) Endpoint: $\left(2\frac{5}{6}, \frac{3}{5}\right)$, midpoint: $(7, 2)$

A) $\left(3, 1\frac{1}{2}\right)$

B) $\left(11\frac{1}{6}, 3\frac{2}{5}\right)$

C) $\left(1\frac{43}{60}, 4\frac{1}{2}\right)$

D) $\left(-2\frac{1}{12}, -\frac{7}{10}\right)$

12) Endpoint: $\left(-1\frac{3}{5}, 3\frac{3}{4}\right)$, midpoint: $\left(-\frac{9}{8}, -\frac{3}{2}\right)$

A) $\left(1\frac{3}{40}, -1\frac{5}{16}\right)$ B) $\left(-\frac{13}{20}, -6\frac{3}{4}\right)$

C) $(-4, -3)$ D) $\left(-\frac{19}{80}, 2\frac{5}{8}\right)$

13) Endpoint: $\left(3\frac{1}{4}, \frac{11}{6}\right)$, midpoint: $\left(-6, \frac{2}{5}\right)$

A) $\left(2\frac{13}{24}, -2\frac{4}{5}\right)$

B) $\left(-15\frac{1}{4}, -1\frac{1}{30}\right)$

C) $\left(4\frac{5}{8}, \frac{43}{60}\right)$

D) $\left(1\frac{1}{2}, -2\right)$

14) Endpoint: $\left(4\frac{1}{5}, 1\right)$, midpoint: $\left(-\frac{4}{3}, \frac{4}{7}\right)$

A) $\left(-6\frac{13}{15}, \frac{1}{7}\right)$ B) $(4, 2)$

C) $\left(2\frac{3}{5}, -\frac{8}{21}\right)$ D) $\left(2\frac{23}{30}, \frac{3}{14}\right)$

15) Endpoint: $\left(4\frac{1}{4}, -\frac{7}{6}\right)$, midpoint: $\left(\frac{2}{7}, 5\right)$

A) $\left(1\frac{13}{24}, 2\frac{9}{14}\right)$

B) $\left(-\frac{1}{2}, -2\right)$

C) $\left(-3\frac{19}{28}, 11\frac{1}{6}\right)$

D) $\left(1\frac{55}{56}, -3\frac{1}{12}\right)$

16) Endpoint: $\left(1\frac{1}{3}, -\frac{3}{2}\right)$, midpoint: $\left(2\frac{1}{4}, -1\frac{5}{6}\right)$

A) $\left(-\frac{1}{12}, \frac{5}{24}\right)$ B) $\left(3\frac{1}{6}, -2\frac{1}{6}\right)$

C) $\left(-\frac{11}{24}, \frac{1}{6}\right)$ D) $(-3, -4)$

17) Endpoint: $\left(-1\frac{1}{3}, 6\right)$, midpoint: $\left(\frac{3}{5}, -3\frac{6}{7}\right)$

A) $(6, 3)$ B) $\left(-\frac{29}{30}, 4\frac{13}{14}\right)$

C) $\left(2\frac{1}{3}, -1\frac{22}{35}\right)$ D) $\left(2\frac{8}{15}, -13\frac{5}{7}\right)$

18) Endpoint: $\left(-2\frac{2}{3}, 3\frac{5}{6}\right)$, midpoint: $\left(-\frac{1}{8}, \frac{1}{4}\right)$

A) $\left(\frac{1}{2}, 2\right)$ B) $\left(\frac{7}{12}, \frac{1}{16}\right)$

C) $\left(-1\frac{13}{48}, 1\frac{19}{24}\right)$ D) $\left(2\frac{5}{12}, -3\frac{1}{3}\right)$

19) Endpoint: $\left(-3\frac{1}{3}, 4\frac{1}{3}\right)$, midpoint: $\left(\frac{6}{5}, 4\frac{5}{6}\right)$

A) $\left(-1, 4\frac{1}{2}\right)$ B) $\left(-2\frac{4}{15}, -\frac{1}{4}\right)$

C) $\left(\frac{1}{2}, 3\frac{1}{60}\right)$ D) $\left(5\frac{11}{15}, 5\frac{1}{3}\right)$

20) Endpoint: $\left(1\frac{1}{2}, 2\right)$, midpoint: $\left(2\frac{1}{4}, 3\frac{1}{7}\right)$

A) $\left(3, 4\frac{2}{7}\right)$ B) $(-3, -4)$

C) $\left(1\frac{3}{4}, 2\frac{39}{56}\right)$ D) $\left(-\frac{3}{8}, -\frac{4}{7}\right)$

21) Endpoint: $\left(1\frac{7}{8}, \frac{2}{5}\right)$, midpoint: $\left(3\frac{1}{2}, 2\frac{2}{7}\right)$

A) $\left(1\frac{11}{80}, 2\frac{25}{28}\right)$ B) $\left(5\frac{1}{8}, 4\frac{6}{35}\right)$

C) $\left(-\frac{13}{16}, -\frac{33}{35}\right)$ D) $\left(\frac{1}{2}, -4\frac{1}{2}\right)$

22) Endpoint: $\left(\frac{3}{4}, 3\frac{1}{2}\right)$, midpoint: $\left(3\frac{2}{5}, 1\frac{1}{2}\right)$

A) $\left(2\frac{1}{8}, 2\frac{9}{20}\right)$ B) $\left(6\frac{1}{20}, -\frac{1}{2}\right)$

C) $\left(-1, 6\frac{1}{2}\right)$ D) $\left(-1\frac{13}{40}, 1\right)$

23) Endpoint: $\left(-\frac{1}{8}, 5\frac{2}{5}\right)$, midpoint: $\left(-\frac{5}{3}, -3\frac{1}{2}\right)$

A) $\left(2\frac{51}{80}, -2\frac{7}{12}\right)$ B) $\left(-3\frac{5}{24}, -12\frac{2}{5}\right)$

C) $\left(\frac{37}{48}, 4\frac{9}{20}\right)$ D) $\left(-\frac{1}{2}, 3\frac{1}{2}\right)$

24) Endpoint: $\left(4\frac{1}{2}, 1\frac{1}{2}\right)$, midpoint: $\left(\frac{5}{4}, \frac{1}{8}\right)$

A) $\left(3, \frac{11}{16}\right)$ B) $\left(1\frac{1}{2}, -3\right)$

C) $\left(-2, -1\frac{1}{4}\right)$ D) $\left(1\frac{5}{8}, \frac{11}{16}\right)$

Answers to Assignment (ID: 4)

1) A	2) B	3) A	4) B
5) C	6) D	7) D	8) D
9) C	10) D	11) B	12) B
13) B	14) A	15) C	16) B
17) D	18) D	19) D	20) A
21) B	22) B	23) B	24) C

Geometry

Assignment

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: $\left(\frac{1}{6}, 7\frac{1}{2}\right)$, midpoint: $(6, 1)$

A) $\left(-2\frac{11}{12}, 3\frac{1}{4}\right)$

B) $\left(2\frac{1}{2}, 1\right)$

C) $\left(3\frac{5}{6}, 3\frac{1}{2}\right)$

D) $\left(11\frac{5}{6}, -5\frac{1}{2}\right)$

2) Endpoint: $\left(0, \frac{7}{8}\right)$, midpoint: $\left(\frac{2}{7}, -2\right)$

A) $\left(\frac{4}{7}, -4\frac{7}{8}\right)$ B) $\left(0, 1\frac{1}{2}\right)$

C) $\left(\frac{7}{16}, -\frac{6}{7}\right)$ D) $\left(-\frac{1}{7}, 1\frac{7}{16}\right)$

3) Endpoint: $\left(\frac{1}{7}, 1\frac{1}{7}\right)$, midpoint: $\left(-3\frac{1}{7}, -\frac{7}{6}\right)$

A) $\left(1\frac{9}{14}, 1\frac{13}{84}\right)$ B) $\left(\frac{9}{14}, -2\frac{13}{84}\right)$

C) $(-1, 3)$ D) $\left(-6\frac{3}{7}, -3\frac{10}{21}\right)$

4) Endpoint: $\left(-\frac{2}{3}, -3\frac{5}{6}\right)$, midpoint: $\left(\frac{5}{3}, -\frac{3}{2}\right)$

A) $\left(-2\frac{1}{4}, \frac{1}{12}\right)$ B) $\left(-1\frac{1}{6}, -1\frac{1}{6}\right)$

C) $\left(-1\frac{1}{2}, 4\frac{1}{2}\right)$ D) $\left(4, \frac{5}{6}\right)$

5) Endpoint: $\left(2, \frac{2}{7}\right)$, midpoint: $\left(4\frac{1}{2}, 1\frac{1}{2}\right)$

A) $(1, 2)$ B) $\left(-1\frac{1}{4}, -\frac{17}{28}\right)$

C) $\left(1\frac{1}{7}, 3\right)$ D) $\left(7, 2\frac{5}{7}\right)$

6) Endpoint: $\left(-\frac{7}{5}, 1\frac{1}{4}\right)$, midpoint: $\left(-3\frac{1}{3}, 2\right)$

A) $\left(-5\frac{4}{15}, 2\frac{3}{4}\right)$ B) $\left(-\frac{3}{40}, -\frac{2}{3}\right)$

C) $\left(2\frac{1}{2}, 1\frac{1}{2}\right)$ D) $\left(\frac{29}{30}, -\frac{3}{8}\right)$

7) Endpoint: $\left(\frac{1}{5}, -\frac{8}{5}\right)$, midpoint: $\left(-1\frac{1}{2}, 2\frac{1}{2}\right)$

A) $\left(-\frac{7}{10}, \frac{1}{2}\right)$ B) $\left(3\frac{1}{2}, 4\frac{1}{2}\right)$

C) $\left(-3\frac{1}{5}, 6\frac{3}{5}\right)$ D) $\left(\frac{17}{20}, -2\frac{1}{20}\right)$

8) Endpoint: $\left(-2, \frac{1}{2}\right)$, midpoint: $\left(-\frac{10}{7}, 1\frac{6}{7}\right)$

A) $\left(-\frac{2}{7}, -\frac{19}{28}\right)$ B) $\left(-\frac{3}{4}, \frac{3}{14}\right)$

C) $\left(-\frac{6}{7}, 3\frac{3}{14}\right)$ D) $\left(5\frac{1}{2}, -4\frac{1}{2}\right)$

9) Endpoint: $\left(-5, -1\frac{1}{5}\right)$, midpoint: $\left(-2\frac{1}{2}, -\frac{4}{3}\right)$

   A) $\left(-1\frac{1}{4}, \frac{1}{15}\right)$ B) $\left(-1, 2\frac{1}{2}\right)$

   C) $\left(0, -1\frac{7}{15}\right)$ D) $\left(-3\frac{1}{10}, -1\frac{11}{12}\right)$

10) Endpoint: $\left(0, -\frac{7}{4}\right)$, midpoint: $\left(-2\frac{1}{6}, \frac{10}{7}\right)$

   A) $\left(-3, 2\frac{1}{2}\right)$ B) $\left(1\frac{1}{12}, -1\frac{33}{56}\right)$

   C) $\left(-\frac{7}{8}, -\frac{31}{84}\right)$ D) $\left(-4\frac{1}{3}, 4\frac{17}{28}\right)$

11) Endpoint: $\left(2, -\frac{3}{4}\right)$, midpoint: $\left(3\frac{4}{5}, 4\frac{3}{4}\right)$

   A) $\left(-\frac{9}{10}, -2\frac{3}{4}\right)$ B) $\left(\frac{5}{8}, 4\frac{11}{40}\right)$

   C) $\left(5\frac{3}{5}, 10\frac{1}{4}\right)$ D) $\left(-4\frac{1}{2}, -5\frac{1}{2}\right)$

12) Endpoint: $\left(-\frac{2}{3}, 1\frac{1}{6}\right)$, midpoint: $\left(1\frac{2}{3}, -1\right)$

   A) $\left(-1\frac{1}{6}, 1\frac{1}{12}\right)$ B) $\left(\frac{1}{4}, \frac{1}{3}\right)$

   C) $\left(5, 1\frac{1}{2}\right)$ D) $\left(4, -3\frac{1}{6}\right)$

13) Endpoint: $\left(\frac{4}{3}, \frac{2}{3}\right)$, midpoint: $\left(-3\frac{1}{2}, 3\frac{1}{4}\right)$

   A) $\left(2\frac{5}{12}, -1\frac{7}{24}\right)$ B) $\left(-8\frac{1}{3}, 5\frac{5}{6}\right)$

   C) $(2, -3)$ D) $\left(1, -\frac{1}{8}\right)$

14) Endpoint: $\left(2\frac{1}{2}, 1\right)$, midpoint: $\left(2\frac{3}{8}, 3\frac{7}{8}\right)$

   A) $\left(7\frac{1}{2}, 6\frac{1}{2}\right)$ B) $\left(\frac{1}{16}, -1\frac{7}{16}\right)$

   C) $\left(1\frac{3}{4}, 3\frac{1}{8}\right)$ D) $\left(2\frac{1}{4}, 6\frac{3}{4}\right)$

15) Endpoint: $\left(-\frac{3}{2}, -\frac{5}{4}\right)$, midpoint: $\left(3\frac{1}{2}, 2\frac{2}{5}\right)$

   A) $\left(1, 4\frac{1}{2}\right)$ B) $\left(-2\frac{1}{2}, -1\frac{33}{40}\right)$

   C) $\left(8\frac{1}{2}, 6\frac{1}{20}\right)$ D) $\left(-1\frac{3}{8}, 2\frac{19}{20}\right)$

16) Endpoint: $\left(-1\frac{1}{2}, \frac{4}{3}\right)$, midpoint: $\left(-2\frac{3}{5}, 0\right)$

   A) $\left(\frac{11}{20}, \frac{2}{3}\right)$ B) $\left(2\frac{1}{2}, 0\right)$

   C) $\left(-\frac{1}{12}, -1\frac{3}{10}\right)$ D) $\left(-3\frac{7}{10}, -1\frac{1}{3}\right)$

17) Endpoint: $\left(-2\frac{1}{8}, -\frac{5}{7}\right)$, midpoint: $\left(-1, \frac{4}{5}\right)$

   A) $\left(1\frac{1}{2}, -2\right)$ B) $\left(-1\frac{47}{112}, -\frac{1}{10}\right)$

   C) $\left(\frac{1}{8}, 2\frac{11}{35}\right)$ D) $\left(-\frac{9}{16}, -\frac{53}{70}\right)$

18) Endpoint: $\left(\frac{7}{8}, \frac{4}{5}\right)$, midpoint: $\left(5\frac{1}{6}, 0\right)$

   A) $\left(\frac{67}{80}, 2\frac{7}{12}\right)$ B) $\left(9\frac{11}{24}, -\frac{4}{5}\right)$

   C) $\left(-2\frac{7}{48}, \frac{2}{5}\right)$ D) $(1, -2)$

19) Endpoint: $\left(1\frac{5}{8}, \frac{1}{5}\right)$, midpoint: $\left(-2\frac{2}{5}, -1\frac{2}{3}\right)$

   A) $\left(3\frac{1}{2}, -1\frac{1}{2}\right)$ B) $\left(\frac{73}{80}, -2\frac{1}{30}\right)$

   C) $\left(2\frac{1}{80}, \frac{14}{15}\right)$ D) $\left(-6\frac{17}{40}, -3\frac{8}{15}\right)$

20) Endpoint: $\left(-3\frac{2}{7}, 1\frac{1}{4}\right)$, midpoint: $\left(\frac{10}{7}, \frac{3}{2}\right)$

   A) $\left(-2\frac{5}{14}, -\frac{1}{8}\right)$ B) $\left(1\frac{1}{2}, -1\right)$

   C) $\left(6\frac{1}{7}, 1\frac{3}{4}\right)$ D) $\left(-1\frac{1}{56}, 1\frac{13}{28}\right)$

21) Endpoint: $\left(4\frac{3}{7}, -3\frac{1}{3}\right)$, midpoint: $\left(-\frac{2}{3}, \frac{5}{3}\right)$

   A) $\left(-5\frac{16}{21}, 6\frac{2}{3}\right)$ B) $\left(\frac{23}{42}, \frac{1}{2}\right)$

   C) $\left(2\frac{23}{42}, -2\frac{1}{2}\right)$ D) $(-2, -1)$

22) Endpoint: $\left(1\frac{5}{6}, 0\right)$, midpoint: $\left(8\frac{1}{2}, -2\frac{2}{3}\right)$

   A) $\left(\frac{11}{12}, 2\frac{11}{12}\right)$ B) $\left(15\frac{1}{6}, -5\frac{1}{3}\right)$

   C) $(-3, 0)$ D) $\left(-3\frac{1}{3}, 1\frac{1}{3}\right)$

23) Endpoint: $\left(2\frac{5}{6}, \frac{13}{7}\right)$, midpoint: $\left(-1, -3\frac{1}{6}\right)$

   A) $\left(2, -3\frac{1}{2}\right)$ B) $\left(-4\frac{5}{6}, -8\frac{4}{21}\right)$

   C) $\left(1\frac{11}{12}, 2\frac{43}{84}\right)$ D) $\left(2\frac{29}{84}, -2\frac{1}{12}\right)$

24) Endpoint: $\left(\frac{5}{6}, -2\right)$, midpoint: $\left(3, -3\frac{2}{5}\right)$

   A) $\left(-\frac{7}{12}, -\frac{1}{5}\right)$ B) $\left(-1\frac{1}{12}, \frac{7}{10}\right)$

   C) $\left(5\frac{1}{6}, -4\frac{4}{5}\right)$ D) $\left(-1\frac{1}{2}, 0\right)$

Answers to Assignment (ID: 5)

1) D
2) A
3) D
4) D
5) D
6) A
7) C
8) C
9) C
10) D
11) C
12) D
13) B
14) D
15) C
16) D
17) C
18) B
19) D
20) C
21) A
22) B
23) B
24) C

Geometry

Assignment

Date_____ Period____

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: $\left(-3\dfrac{4}{5}, 4\right)$, midpoint: $\left(-1, -2\dfrac{1}{2}\right)$

  A) $\left(\dfrac{1}{10}, -1\dfrac{3}{4}\right)$ B) $\left(1\dfrac{4}{5}, -9\right)$

  C) $\left(-4\dfrac{1}{2}, 1\right)$ D) $\left(-1\dfrac{2}{5}, 3\dfrac{1}{4}\right)$

2) Endpoint: $\left(-1\dfrac{1}{5}, \dfrac{1}{2}\right)$, midpoint: $\left(2, -\dfrac{11}{6}\right)$

  A) $\left(5\dfrac{1}{5}, -4\dfrac{1}{6}\right)$ B) $\left(-1\dfrac{1}{2}, -6\right)$

  C) $\left(-\dfrac{7}{20}, \dfrac{1}{12}\right)$ D) $\left(-1\dfrac{3}{5}, 1\dfrac{1}{6}\right)$

3) Endpoint: $\left(4\dfrac{3}{4}, -\dfrac{4}{5}\right)$, midpoint: $(-1, 0)$

  A) $\left(-3\dfrac{1}{2}, 0\right)$ B) $\left(1\dfrac{39}{40}, -\dfrac{1}{2}\right)$

  C) $\left(2\dfrac{7}{8}, -\dfrac{2}{5}\right)$ D) $\left(-6\dfrac{3}{4}, \dfrac{4}{5}\right)$

4) Endpoint: $\left(3\dfrac{1}{4}, 2\right)$, midpoint: $\left(-3\dfrac{3}{8}, -\dfrac{13}{8}\right)$

  A) $\left(3\dfrac{5}{16}, 1\dfrac{13}{16}\right)$ B) $\left(2\dfrac{5}{8}, -2\dfrac{1}{2}\right)$

  C) $\left(-4\dfrac{1}{2}, -1\dfrac{1}{2}\right)$ D) $\left(-10, -5\dfrac{1}{4}\right)$

5) Endpoint: $\left(\dfrac{3}{2}, \dfrac{8}{7}\right)$, midpoint: $\left(-\dfrac{1}{2}, 0\right)$

  A) $\left(-2\dfrac{1}{2}, -1\dfrac{1}{7}\right)$ B) $\left(1\dfrac{9}{28}, -\dfrac{1}{4}\right)$

  C) $\left(1, \dfrac{4}{7}\right)$ D) $\left(-\dfrac{1}{2}, -1\right)$

6) Endpoint: $\left(-\dfrac{4}{3}, 4\dfrac{3}{4}\right)$, midpoint: $\left(-1, \dfrac{1}{6}\right)$

  A) $\left(-\dfrac{2}{3}, -4\dfrac{5}{12}\right)$ B) $\left(1\dfrac{17}{24}, -\dfrac{5}{12}\right)$

  C) $\left(-1, 5\dfrac{1}{2}\right)$ D) $\left(-\dfrac{1}{6}, 2\dfrac{7}{24}\right)$

7) Endpoint: $\left(2\dfrac{3}{4}, -\dfrac{7}{8}\right)$, midpoint: $\left(\dfrac{5}{3}, \dfrac{5}{7}\right)$

  A) $\left(\dfrac{13}{24}, -\dfrac{89}{112}\right)$ B) $\left(\dfrac{15}{16}, 1\dfrac{4}{21}\right)$

  C) $\left(\dfrac{7}{12}, 2\dfrac{17}{56}\right)$ D) $(-2, 0)$

8) Endpoint: $\left(\dfrac{2}{3}, -2\dfrac{1}{2}\right)$, midpoint: $\left(-\dfrac{12}{7}, 3\dfrac{7}{8}\right)$

  A) $\left(-\dfrac{11}{12}, 1\dfrac{9}{112}\right)$ B) $\left(-4\dfrac{2}{21}, 10\dfrac{1}{4}\right)$

  C) $(1, 0)$ D) $\left(1\dfrac{4}{21}, -3\dfrac{3}{16}\right)$

9) Endpoint: $\left(\dfrac{7}{4}, 0\right)$, midpoint: $\left(-\dfrac{7}{5}, \dfrac{7}{8}\right)$

A) $\left(-\dfrac{1}{2}, -1\right)$ B) $\left(-4\dfrac{11}{20}, 1\dfrac{3}{4}\right)$

C) $\left(\dfrac{7}{8}, -\dfrac{21}{80}\right)$ D) $\left(1\dfrac{23}{40}, -\dfrac{7}{16}\right)$

10) Endpoint: $\left(2, -2\dfrac{1}{6}\right)$, midpoint: $\left(-\dfrac{11}{6}, -1\dfrac{1}{4}\right)$

A) $\left(-\dfrac{1}{12}, -1\dfrac{13}{24}\right)$ B) $(0, 2)$

C) $\left(1\dfrac{11}{12}, -\dfrac{11}{24}\right)$ D) $\left(-5\dfrac{2}{3}, -\dfrac{1}{3}\right)$

11) Endpoint: $\left(\dfrac{1}{2}, -\dfrac{3}{4}\right)$, midpoint: $\left(\dfrac{5}{4}, -2\right)$

A) $\left(-\dfrac{3}{8}, \dfrac{5}{8}\right)$ B) $\left(-\dfrac{1}{8}, -\dfrac{3}{8}\right)$

C) $\left(\dfrac{1}{2}, -7\dfrac{1}{2}\right)$ D) $\left(2, -3\dfrac{1}{4}\right)$

12) Endpoint: $\left(\dfrac{1}{4}, -2\right)$, midpoint: $\left(-3\dfrac{1}{2}, -2\right)$

A) $\left(-7\dfrac{1}{4}, -2\right)$ B) $(-3, -1)$

C) $\left(1\dfrac{7}{8}, 0\right)$ D) $\left(-\dfrac{7}{8}, -2\dfrac{3}{4}\right)$

13) Endpoint: $\left(-\dfrac{1}{2}, 2\dfrac{1}{6}\right)$, midpoint: $\left(-2\dfrac{5}{7}, -\dfrac{9}{8}\right)$

A) $\left(\dfrac{5}{6}, -1\dfrac{103}{112}\right)$ B) $\left(1\dfrac{1}{2}, -5\dfrac{1}{2}\right)$

C) $\left(-4\dfrac{13}{14}, -4\dfrac{5}{12}\right)$ D) $\left(1\dfrac{3}{28}, 1\dfrac{31}{48}\right)$

14) Endpoint: $\left(\dfrac{11}{7}, -1\right)$, midpoint: $(-1, 0)$

A) $\left(6\dfrac{1}{2}, 3\right)$ B) $\left(-3\dfrac{4}{7}, 1\right)$

C) $\left(1\dfrac{2}{7}, -\dfrac{1}{2}\right)$ D) $\left(\dfrac{2}{7}, -\dfrac{1}{2}\right)$

15) Endpoint: $\left(-\dfrac{11}{6}, 2\right)$, midpoint: $\left(-2\dfrac{4}{7}, -1\right)$

A) $(-2, 4)$ B) $\left(-3\dfrac{13}{42}, -4\right)$

C) $\left(\dfrac{31}{84}, 1\dfrac{1}{2}\right)$ D) $\left(\dfrac{1}{12}, -1\dfrac{11}{14}\right)$

16) Endpoint: $\left(\dfrac{6}{7}, 8\right)$, midpoint: $\left(8, \dfrac{4}{3}\right)$

A) $\left(-3\dfrac{4}{7}, 3\dfrac{1}{3}\right)$ B) $\left(3\dfrac{1}{2}, 6\dfrac{1}{2}\right)$

C) $\left(15\dfrac{1}{7}, -5\dfrac{1}{3}\right)$ D) $\left(4\dfrac{3}{7}, 4\dfrac{2}{3}\right)$

17) Endpoint: $\left(-\dfrac{5}{7}, \dfrac{1}{6}\right)$, midpoint: $\left(4\dfrac{1}{2}, 4\dfrac{1}{2}\right)$

A) $\left(9\dfrac{5}{7}, 8\dfrac{5}{6}\right)$ B) $\left(-\dfrac{23}{84}, 4\dfrac{1}{2}\right)$

C) $\left(-2\dfrac{17}{28}, -2\dfrac{1}{6}\right)$ D) $(-4, 0)$

18) Endpoint: $\left(-\dfrac{7}{5}, 2\dfrac{3}{5}\right)$, midpoint: $\left(-1\dfrac{1}{6}, 2\right)$

A) $\left(\dfrac{3}{5}, \dfrac{5}{12}\right)$ B) $\left(1, -3\dfrac{1}{2}\right)$

C) $\left(-\dfrac{14}{15}, 1\dfrac{2}{5}\right)$ D) $\left(-\dfrac{7}{60}, \dfrac{3}{10}\right)$

19) Endpoint: $\left(-8, -\dfrac{2}{3}\right)$, midpoint: $\left(\dfrac{1}{3}, \dfrac{1}{6}\right)$

  A) $(3, -2)$ B) $\left(-4\dfrac{1}{6}, -\dfrac{5}{12}\right)$

  C) $\left(-4\dfrac{1}{3}, \dfrac{1}{4}\right)$ D) $\left(8\dfrac{2}{3}, 1\right)$

20) Endpoint: $\left(-\dfrac{1}{3}, \dfrac{4}{3}\right)$, midpoint: $\left(3\dfrac{2}{5}, -2\dfrac{1}{2}\right)$

  A) $\left(7\dfrac{2}{15}, -6\dfrac{1}{3}\right)$ B) $\left(-1\dfrac{13}{15}, 1\dfrac{11}{12}\right)$

  C) $\left(\dfrac{1}{2}, \dfrac{9}{20}\right)$ D) $(2, 0)$

21) Endpoint: $\left(-3\dfrac{1}{4}, -6\dfrac{1}{6}\right)$, midpoint: $\left(3, -1\dfrac{3}{5}\right)$

  A) $\left(-3\dfrac{1}{8}, -2\dfrac{17}{60}\right)$ B) $\left(5, \dfrac{1}{2}\right)$

  C) $\left(-4\dfrac{17}{24}, \dfrac{7}{10}\right)$ D) $\left(9\dfrac{1}{4}, 2\dfrac{29}{30}\right)$

22) Endpoint: $\left(1\dfrac{3}{4}, -2\dfrac{1}{2}\right)$, midpoint: $\left(\dfrac{3}{4}, 0\right)$

  A) $\left(\dfrac{1}{2}, -1\dfrac{1}{4}\right)$ B) $\left(-\dfrac{1}{4}, 2\dfrac{1}{2}\right)$

  C) $\left(-1\dfrac{1}{2}, -5\dfrac{1}{2}\right)$ D) $\left(-\dfrac{3}{8}, \dfrac{3}{8}\right)$

23) Endpoint: $\left(4\dfrac{3}{4}, 4\dfrac{7}{8}\right)$, midpoint: $\left(-1, \dfrac{7}{6}\right)$

  A) $(1, 1)$ B) $\left(4\dfrac{13}{16}, \dfrac{1}{12}\right)$

  C) $\left(-6\dfrac{3}{4}, -2\dfrac{13}{24}\right)$ D) $\left(2\dfrac{7}{8}, 1\dfrac{41}{48}\right)$

24) Endpoint: $\left(1\dfrac{1}{4}, -\dfrac{2}{3}\right)$, midpoint: $\left(1\dfrac{5}{8}, \dfrac{2}{5}\right)$

  A) $\left(2, 1\dfrac{7}{15}\right)$ B) $(-3, 2)$

  C) $\left(\dfrac{7}{24}, 1\dfrac{1}{80}\right)$ D) $\left(-\dfrac{3}{16}, -\dfrac{8}{15}\right)$

Answers to Assignment (ID: 6)

1) B   2) A   3) D   4) D

5) A   6) A   7) C   8) B

9) B   10) D   11) D   12) A

13) C   14) B   15) B   16) C

17) A   18) C   19) D   20) A

21) D   22) B   23) C   24) A

Geometry   Name_____

Assignment

Date_____ Period_____

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: $\left(-1\frac{1}{2}, \frac{7}{4}\right)$, midpoint: $\left(-5, -\frac{3}{2}\right)$

  A) $\left(\frac{1}{8}, -3\frac{1}{4}\right)$ B) $\left(-8\frac{1}{2}, -4\frac{3}{4}\right)$

  C) $\left(8, -\frac{1}{2}\right)$ D) $\left(1\frac{3}{4}, 1\frac{5}{8}\right)$

2) Endpoint: $\left(4, \frac{5}{3}\right)$, midpoint: $\left(\frac{11}{7}, -3\frac{3}{5}\right)$

  A) $\left(2\frac{5}{6}, -1\frac{1}{70}\right)$ B) $(-2, -3)$

  C) $\left(-\frac{6}{7}, -8\frac{13}{15}\right)$ D) $\left(1\frac{3}{14}, 2\frac{19}{30}\right)$

3) Endpoint: $\left(\frac{2}{3}, -2\right)$, midpoint: $\left(6, -2\frac{1}{4}\right)$

  A) $\left(-2\frac{2}{3}, \frac{1}{8}\right)$ B) $\left(-1\frac{1}{2}, -\frac{1}{2}\right)$

  C) $\left(11\frac{1}{3}, -2\frac{1}{2}\right)$ D) $\left(-\frac{2}{3}, 1\frac{7}{8}\right)$

4) Endpoint: $\left(4\frac{2}{3}, \frac{5}{6}\right)$, midpoint: $\left(\frac{1}{4}, -\frac{3}{2}\right)$

  A) $\left(2\frac{5}{24}, 1\frac{1}{6}\right)$ B) $\left(-4\frac{1}{6}, -3\frac{5}{6}\right)$

  C) $\left(-2\frac{1}{2}, 1\right)$ D) $\left(2\frac{3}{4}, -\frac{5}{8}\right)$

5) Endpoint: $\left(-1\frac{1}{2}, -\frac{3}{5}\right)$, midpoint: $\left(4\frac{2}{3}, -2\frac{2}{3}\right)$

  A) $\left(-3\frac{1}{12}, 1\frac{1}{30}\right)$ B) $\left(-1\frac{1}{20}, 1\right)$

  C) $\left(-\frac{1}{2}, 5\right)$ D) $\left(10\frac{5}{6}, -4\frac{11}{15}\right)$

6) Endpoint: $\left(1\frac{1}{8}, -\frac{5}{4}\right)$, midpoint: $\left(-2\frac{1}{3}, -\frac{11}{8}\right)$

  A) $\left(\frac{1}{2}, 1\right)$ B) $\left(-\frac{1}{16}, -1\frac{41}{48}\right)$

  C) $\left(-5\frac{19}{24}, -1\frac{1}{2}\right)$ D) $\left(1\frac{35}{48}, \frac{1}{16}\right)$

7) Endpoint: $\left(4\frac{1}{2}, -2\frac{1}{6}\right)$, midpoint: $\left(-\frac{1}{4}, 2\frac{7}{8}\right)$

  A) $\left(2\frac{3}{8}, -2\frac{25}{48}\right)$ B) $\left(-5, 7\frac{11}{12}\right)$

  C) $(3, -4)$ D) $\left(1\frac{1}{6}, 1\frac{5}{16}\right)$

8) Endpoint: $\left(-1\frac{3}{7}, -\frac{2}{5}\right)$, midpoint: $\left(\frac{1}{6}, -3\frac{1}{4}\right)$

  A) $\left(-\frac{67}{84}, 1\frac{17}{40}\right)$ B) $\left(1\frac{16}{21}, -6\frac{1}{10}\right)$

  C) $\left(-5\frac{1}{2}, -1\frac{1}{2}\right)$ D) $\left(-\frac{32}{35}, -1\frac{13}{24}\right)$

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9) Endpoint: $\left(-3\frac{6}{7},\ 3\frac{5}{8}\right)$, midpoint: $\left(\frac{3}{2},\ -1\frac{4}{5}\right)$

  A) $(0,\ -3)$ B) $\left(-2\frac{19}{28},\ 2\frac{57}{80}\right)$

  C) $\left(6\frac{6}{7},\ -7\frac{9}{40}\right)$ D) $\left(-\frac{13}{112},\ -\frac{3}{20}\right)$

10) Endpoint: $\left(3\frac{1}{7},\ -1\frac{3}{7}\right)$, midpoint: $\left(\frac{1}{3},\ -2\right)$

  A) $\left(1\frac{17}{42},\ \frac{2}{7}\right)$ B) $\left(-3\frac{1}{2},\ -6\right)$

  C) $\left(-2\frac{10}{21},\ -2\frac{4}{7}\right)$ D) $\left(\frac{6}{7},\ -\frac{5}{6}\right)$

11) Endpoint: $\left(\frac{2}{3},\ -1\frac{2}{5}\right)$, midpoint: $\left(-2,\ \frac{2}{5}\right)$

  A) $\left(-\frac{11}{30},\ -\frac{4}{5}\right)$ B) $\left(4\frac{1}{2},\ 6\right)$

  C) $\left(-4\frac{2}{3},\ 2\frac{1}{5}\right)$ D) $\left(1\frac{1}{3},\ -\frac{9}{10}\right)$

12) Endpoint: $\left(-\frac{1}{6},\ 2\frac{1}{2}\right)$, midpoint: $\left(2\frac{3}{4},\ 5\right)$

  A) $\left(-1\frac{11}{24},\ -1\frac{1}{4}\right)$ B) $\left(1\frac{1}{2},\ -3\right)$

  C) $\left(5\frac{2}{3},\ 7\frac{1}{2}\right)$ D) $\left(1\frac{1}{6},\ 3\frac{7}{8}\right)$

13) Endpoint: $\left(-2\frac{5}{7},\ \frac{3}{2}\right)$, midpoint: $\left(3\frac{3}{4},\ 1\frac{1}{3}\right)$

  A) $\left(10\frac{3}{14},\ 1\frac{1}{6}\right)$ B) $\left(-\frac{17}{28},\ 2\frac{13}{24}\right)$

  C) $\left(-3\frac{13}{56},\ \frac{1}{12}\right)$ D) $\left(\frac{1}{2},\ 3\frac{1}{2}\right)$

14) Endpoint: $\left(-1,\ 4\frac{3}{8}\right)$, midpoint: $\left(\frac{1}{2},\ 4\frac{1}{2}\right)$

  A) $\left(1\frac{11}{16},\ 2\frac{1}{2}\right)$ B) $\left(2,\ 4\frac{5}{8}\right)$

  C) $\left(-5\frac{1}{2},\ 2\right)$ D) $\left(-\frac{3}{4},\ -\frac{1}{16}\right)$

15) Endpoint: $\left(-\frac{3}{5},\ 2\right)$, midpoint: $\left(\frac{6}{7},\ \frac{3}{8}\right)$

  A) $(-3,\ -1)$ B) $\left(2\frac{11}{35},\ -1\frac{1}{4}\right)$

  C) $\left(-\frac{51}{70},\ \frac{13}{16}\right)$ D) $\left(\frac{7}{10},\ \frac{69}{112}\right)$

16) Endpoint: $\left(\frac{8}{5},\ 3\frac{5}{6}\right)$, midpoint: $\left(-2\frac{3}{7},\ -3\frac{2}{5}\right)$

  A) $\left(2\frac{43}{60},\ -2\frac{32}{35}\right)$ B) $\left(-5\frac{1}{2},\ -5\right)$

  C) $\left(2\frac{1}{70},\ 3\frac{37}{60}\right)$ D) $\left(-6\frac{16}{35},\ -10\frac{19}{30}\right)$

17) Endpoint: $\left(1,\ \frac{5}{6}\right)$, midpoint: $\left(3\frac{6}{7},\ -4\right)$

  A) $\left(\frac{11}{12},\ -\frac{1}{14}\right)$ B) $\left(6\frac{5}{7},\ -8\frac{5}{6}\right)$

  C) $\left(-1\frac{3}{7},\ 2\frac{5}{12}\right)$ D) $(7,\ 2)$

18) Endpoint: $\left(-\frac{3}{2},\ \frac{4}{3}\right)$, midpoint: $\left(-\frac{7}{4},\ -\frac{5}{3}\right)$

  A) $\left(\frac{1}{8},\ 1\frac{1}{2}\right)$ B) $\left(-2,\ -4\frac{2}{3}\right)$

  C) $\left(-3,\ -\frac{1}{2}\right)$ D) $\left(-\frac{1}{12},\ -1\frac{17}{24}\right)$

19) Endpoint: $\left(-\dfrac{5}{3}, \dfrac{5}{8}\right)$, midpoint: $\left(1, 4\dfrac{5}{8}\right)$

A) $\left(3\dfrac{1}{2}, 1\dfrac{1}{2}\right)$ B) $\left(3\dfrac{2}{3}, 8\dfrac{5}{8}\right)$

C) $\left(-1\dfrac{1}{3}, -2\right)$ D) $\left(-\dfrac{25}{48}, 2\dfrac{13}{16}\right)$

20) Endpoint: $\left(0, -\dfrac{3}{5}\right)$, midpoint: $\left(-2\dfrac{1}{2}, -3\dfrac{1}{5}\right)$

A) $\left(1\dfrac{1}{4}, 1\dfrac{3}{10}\right)$ B) $\left(-\dfrac{3}{10}, -2\dfrac{17}{20}\right)$

C) $\left(-5, -5\dfrac{4}{5}\right)$ D) $\left(4, \dfrac{1}{2}\right)$

21) Endpoint: $\left(-\dfrac{3}{2}, -1\dfrac{1}{2}\right)$, midpoint: $\left(\dfrac{1}{2}, \dfrac{2}{3}\right)$

A) $\left(2\dfrac{1}{2}, 2\dfrac{5}{6}\right)$ B) $\left(-6, 1\dfrac{1}{2}\right)$

C) $\left(-1, -1\dfrac{1}{12}\right)$ D) $\left(-1\dfrac{1}{2}, \dfrac{7}{12}\right)$

22) Endpoint: $\left(-\dfrac{2}{3}, -\dfrac{11}{6}\right)$, midpoint: $\left(-\dfrac{5}{7}, \dfrac{1}{5}\right)$

A) $\left(-\dfrac{16}{21}, 2\dfrac{7}{30}\right)$ B) $\left(\dfrac{1}{42}, -1\dfrac{1}{60}\right)$

C) $\left(-1\dfrac{1}{4}, -\dfrac{9}{35}\right)$ D) $(1, 4)$

23) Endpoint: $(1, 2)$, midpoint: $\left(\dfrac{10}{7}, \dfrac{9}{7}\right)$

A) $\left(5, \dfrac{1}{2}\right)$ B) $\left(-\dfrac{3}{14}, \dfrac{5}{14}\right)$

C) $\left(1\dfrac{6}{7}, \dfrac{4}{7}\right)$ D) $\left(1\dfrac{1}{2}, 1\dfrac{5}{14}\right)$

24) Endpoint: $\left(0, \dfrac{3}{8}\right)$, midpoint: $\left(1\dfrac{3}{4}, 4\dfrac{1}{7}\right)$

A) $\left(-\dfrac{7}{8}, -1\dfrac{99}{112}\right)$ B) $\left(-5\dfrac{1}{2}, 0\right)$

C) $\left(3\dfrac{1}{2}, 7\dfrac{51}{56}\right)$ D) $\left(\dfrac{3}{16}, 2\dfrac{53}{56}\right)$

Answers to Assignment (ID: 7)

1) B	2) C	3) C	4) B
5) D	6) C	7) B	8) B
9) C	10) C	11) C	12) C
13) A	14) B	15) B	16) D
17) B	18) B	19) B	20) C
21) A	22) A	23) C	24) C

Geometry   Name_____

Assignment

Date_____ Period_____

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: $\left(0, \dfrac{2}{3}\right)$, midpoint: $\left(-8, \dfrac{4}{3}\right)$

  A) $\left(\dfrac{1}{3}, -3\dfrac{1}{3}\right)$ B) $(-16, 2)$

  C) $\left(4, -\dfrac{1}{3}\right)$ D) $\left(\dfrac{1}{2}, -4\dfrac{1}{2}\right)$

2) Endpoint: $\left(-\dfrac{7}{8}, 4\dfrac{4}{5}\right)$, midpoint: $\left(-\dfrac{5}{4}, -2\dfrac{5}{7}\right)$

  A) $\left(-5\dfrac{1}{2}, -3\right)$ B) $\left(1\dfrac{77}{80}, -1\dfrac{55}{56}\right)$

  C) $\left(\dfrac{3}{16}, 3\dfrac{53}{70}\right)$ D) $\left(-1\dfrac{5}{8}, -10\dfrac{8}{35}\right)$

3) Endpoint: $\left(-2\dfrac{7}{8}, 0\right)$, midpoint: $\left(2\dfrac{4}{7}, \dfrac{7}{8}\right)$

  A) $\left(-2\dfrac{81}{112}, -\dfrac{7}{16}\right)$

  B) $\left(8\dfrac{1}{56}, 1\dfrac{3}{4}\right)$

  C) $\left(-1\dfrac{7}{16}, 1\dfrac{81}{112}\right)$

  D) $\left(6\dfrac{1}{2}, -6\right)$

4) Endpoint: $\left(-3\dfrac{5}{7}, \dfrac{5}{8}\right)$, midpoint: $\left(3\dfrac{1}{2}, 3\right)$

  A) $\left(10\dfrac{5}{7}, 5\dfrac{3}{8}\right)$

  B) $\left(-3\dfrac{17}{28}, -1\dfrac{3}{16}\right)$

  C) $\left(-1\dfrac{61}{112}, 3\dfrac{1}{4}\right)$

  D) $\left(3\dfrac{1}{2}, -2\right)$

5) Endpoint: $\left(4\dfrac{1}{6}, -1\dfrac{1}{4}\right)$, midpoint: $\left(-3\dfrac{3}{8}, -\dfrac{11}{7}\right)$

  A) $\left(1\dfrac{11}{24}, -2\dfrac{53}{112}\right)$ B) $\left(3\dfrac{37}{48}, \dfrac{9}{56}\right)$

  C) $\left(-10\dfrac{11}{12}, -1\dfrac{25}{28}\right)$ D) $\left(-3\dfrac{1}{2}, -2\right)$

6) Endpoint: $\left(4\dfrac{5}{6}, \dfrac{1}{6}\right)$, midpoint: $\left(2\dfrac{5}{8}, -1\dfrac{3}{7}\right)$

  A) $\left(2\dfrac{1}{2}, \dfrac{67}{112}\right)$ B) $\left(\dfrac{5}{12}, -3\dfrac{1}{42}\right)$

  C) $\left(1\dfrac{5}{48}, \dfrac{67}{84}\right)$ D) $\left(-2\dfrac{1}{2}, 1\right)$

7) Endpoint: $\left(7\dfrac{3}{5}, -\dfrac{1}{4}\right)$, midpoint: $\left(\dfrac{1}{2}, -6\right)$

  A) $\left(3\dfrac{11}{20}, 2\dfrac{7}{8}\right)$ B) $\left(3\dfrac{27}{40}, -2\dfrac{3}{4}\right)$

  C) $\left(1, -3\dfrac{1}{2}\right)$ D) $\left(-6\dfrac{3}{5}, -11\dfrac{3}{4}\right)$

8) Endpoint: $\left(-6, 4\dfrac{2}{7}\right)$, midpoint: $\left(-\dfrac{3}{4}, -2\dfrac{1}{2}\right)$

  A) $\left(4\dfrac{1}{2}, -9\dfrac{2}{7}\right)$ B) $\left(3\dfrac{1}{2}, 1\right)$

  C) $\left(-\dfrac{6}{7}, -1\dfrac{5}{8}\right)$ D) $\left(-2\dfrac{5}{8}, 3\dfrac{11}{28}\right)$

9) Endpoint: $\left(\dfrac{2}{5}, -\dfrac{13}{7}\right)$, midpoint: $\left(-\dfrac{2}{7}, \dfrac{1}{8}\right)$

   A) $\left(-\dfrac{51}{70}, -\dfrac{9}{112}\right)$ B) $\left(\dfrac{12}{35}, -\dfrac{111}{112}\right)$

   C) $\left(0, -5\dfrac{1}{2}\right)$ D) $\left(-\dfrac{34}{35}, 2\dfrac{3}{28}\right)$

10) Endpoint: $\left(-2\dfrac{1}{5}, -\dfrac{2}{5}\right)$, midpoint: $\left(-2\dfrac{3}{4}, \dfrac{4}{3}\right)$

   A) $\left(\dfrac{11}{40}, -\dfrac{13}{15}\right)$ B) $\left(0, 1\dfrac{1}{2}\right)$

   C) $\left(-1\dfrac{3}{10}, -\dfrac{17}{24}\right)$ D) $\left(-3\dfrac{3}{10}, 3\dfrac{1}{15}\right)$

11) Endpoint: $\left(-3\dfrac{1}{5}, \dfrac{1}{3}\right)$, midpoint: $\left(-1\dfrac{3}{4}, \dfrac{11}{8}\right)$

   A) $\left(-\dfrac{29}{40}, -\dfrac{25}{48}\right)$ B) $\left(-\dfrac{3}{10}, 2\dfrac{5}{12}\right)$

   C) $\left(-\dfrac{1}{2}, 0\right)$ D) $\left(-1\dfrac{13}{30}, -\dfrac{3}{16}\right)$

12) Endpoint: $\left(4\dfrac{3}{4}, 4\dfrac{5}{8}\right)$, midpoint: $\left(1\dfrac{3}{5}, -3\dfrac{5}{6}\right)$

   A) $\left(4\dfrac{11}{16}, -1\dfrac{7}{60}\right)$ B) $\left(1\dfrac{23}{40}, 4\dfrac{11}{48}\right)$

   C) $\left(6, \dfrac{1}{2}\right)$ D) $\left(-1\dfrac{11}{20}, -12\dfrac{7}{24}\right)$

13) Endpoint: $\left(1\dfrac{1}{3}, 2\dfrac{1}{4}\right)$, midpoint: $\left(-3\dfrac{3}{7}, 8\right)$

   A) $\left(-2, -4\dfrac{1}{2}\right)$ B) $\left(2\dfrac{8}{21}, -2\dfrac{7}{8}\right)$

   C) $\left(1\dfrac{19}{24}, 2\dfrac{2}{7}\right)$ D) $\left(-8\dfrac{4}{21}, 13\dfrac{3}{4}\right)$

14) Endpoint: $\left(2\dfrac{1}{4}, \dfrac{1}{6}\right)$, midpoint: $\left(8\dfrac{1}{6}, \dfrac{3}{2}\right)$

   A) $\left(\dfrac{1}{2}, 6\right)$ B) $\left(1\dfrac{5}{24}, 4\dfrac{5}{6}\right)$

   C) $\left(14\dfrac{1}{12}, 2\dfrac{5}{6}\right)$ D) $\left(-2\dfrac{23}{24}, -\dfrac{2}{3}\right)$

15) Endpoint: $\left(\dfrac{3}{4}, 2\right)$, midpoint: $\left(\dfrac{3}{5}, 6\right)$

   A) $\left(-5\dfrac{1}{2}, \dfrac{1}{2}\right)$ B) $\left(1\dfrac{3}{8}, 3\dfrac{3}{10}\right)$

   C) $\left(\dfrac{3}{40}, -2\right)$ D) $\left(\dfrac{9}{20}, 10\right)$

16) Endpoint: $\left(-1\dfrac{1}{3}, \dfrac{12}{7}\right)$, midpoint: $\left(3\dfrac{5}{8}, 3\dfrac{2}{3}\right)$

   A) $\left(-5\dfrac{1}{2}, 4\dfrac{1}{2}\right)$ B) $\left(8\dfrac{7}{12}, 5\dfrac{13}{21}\right)$

   C) $\left(\dfrac{4}{21}, 3\dfrac{31}{48}\right)$ D) $\left(-2\dfrac{23}{48}, -\dfrac{41}{42}\right)$

17) Endpoint: $\left(1\dfrac{1}{2}, 2\dfrac{3}{5}\right)$, midpoint: $\left(0, -3\dfrac{2}{5}\right)$

   A) $\left(2\dfrac{1}{20}, -1\dfrac{7}{10}\right)$ B) $(3, -7)$

   C) $\left(-1\dfrac{1}{2}, -9\dfrac{2}{5}\right)$ D) $\left(\dfrac{3}{4}, 3\right)$

18) Endpoint: $\left(-\dfrac{13}{8}, -\dfrac{12}{7}\right)$, midpoint: $\left(\dfrac{1}{2}, 2\dfrac{1}{6}\right)$

   A) $\left(-1\dfrac{1}{16}, -1\dfrac{79}{84}\right)$ B) $\left(-1\dfrac{75}{112}, 1\dfrac{1}{3}\right)$

   C) $\left(1\dfrac{1}{2}, 1\dfrac{1}{2}\right)$ D) $\left(2\dfrac{5}{8}, 6\dfrac{1}{21}\right)$

19) Endpoint: $\left(-\dfrac{5}{8}, 2\right)$, midpoint: $\left(\dfrac{3}{2}, 2\dfrac{1}{3}\right)$

   A) $\left(-1\dfrac{1}{16}, -\dfrac{1}{6}\right)$ B) $\left(3\dfrac{5}{8}, 2\dfrac{2}{3}\right)$

   C) $(1, -6)$ D) $\left(\dfrac{11}{16}, 1\dfrac{11}{12}\right)$

20) Endpoint: $\left(\dfrac{1}{4}, \dfrac{3}{8}\right)$, midpoint: $\left(-3\dfrac{3}{4}, -\dfrac{3}{2}\right)$

   A) $\left(\dfrac{5}{16}, -2\dfrac{5}{8}\right)$ B) $\left(2, \dfrac{15}{16}\right)$

   C) $\left(-7\dfrac{3}{4}, -3\dfrac{3}{8}\right)$ D) $\left(-2, -2\dfrac{1}{2}\right)$

21) Endpoint: $\left(3\dfrac{1}{2}, -\dfrac{7}{4}\right)$, midpoint: $\left(\dfrac{3}{7}, \dfrac{1}{4}\right)$

   A) $(-6, 2)$ B) $\left(-2\dfrac{9}{14}, 2\dfrac{1}{4}\right)$

   C) $\left(1\dfrac{15}{28}, -1\right)$ D) $\left(\dfrac{7}{8}, \dfrac{19}{56}\right)$

22) Endpoint: $\left(\dfrac{4}{7}, -2\right)$, midpoint: $\left(2\dfrac{1}{6}, \dfrac{9}{8}\right)$

   A) $\left(3\dfrac{16}{21}, 4\dfrac{1}{4}\right)$ B) $(6, -2)$

   C) $\left(-\dfrac{5}{7}, 1\dfrac{31}{48}\right)$ D) $\left(-\dfrac{67}{84}, -1\dfrac{9}{16}\right)$

23) Endpoint: $\left(-\dfrac{1}{7}, -\dfrac{3}{2}\right)$, midpoint: $\left(-\dfrac{7}{5}, -\dfrac{1}{2}\right)$

   A) $\left(\dfrac{22}{35}, -\dfrac{1}{2}\right)$ B) $\left(-2\dfrac{23}{35}, \dfrac{1}{2}\right)$

   C) $\left(-\dfrac{23}{28}, -\dfrac{19}{20}\right)$ D) $(-1, 4)$

24) Endpoint: $\left(1, 4\dfrac{5}{6}\right)$, midpoint: $\left(\dfrac{4}{5}, \dfrac{3}{4}\right)$

   A) $\left(\dfrac{1}{10}, 2\dfrac{1}{24}\right)$ B) $\left(\dfrac{1}{2}, 2\dfrac{1}{2}\right)$

   C) $\left(2\dfrac{11}{12}, \dfrac{31}{40}\right)$ D) $\left(\dfrac{3}{5}, -3\dfrac{1}{3}\right)$

Answers to Assignment (ID: 8)

1) B	2) D	3) B	4) A
5) C	6) B	7) D	8) A
9) D	10) D	11) B	12) D
13) D	14) C	15) D	16) B
17) C	18) D	19) B	20) C
21) B	22) A	23) B	24) D

Geometry   Name_____

Assignment

Date_____ Period_____

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: $\left(\dfrac{5}{6}, -2\right)$, midpoint: $\left(3\dfrac{7}{8}, 1\dfrac{1}{4}\right)$

  A) $\left(-\dfrac{7}{12}, 2\dfrac{9}{16}\right)$ B) $\left(-2, -\dfrac{1}{2}\right)$

  C) $\left(-1\dfrac{25}{48}, -1\dfrac{5}{8}\right)$ D) $\left(6\dfrac{11}{12}, 4\dfrac{1}{2}\right)$

2) Endpoint: $\left(\dfrac{5}{3}, 2\dfrac{1}{5}\right)$, midpoint: $\left(-2\dfrac{3}{4}, \dfrac{1}{4}\right)$

  A) $\left(1\dfrac{14}{15}, -1\dfrac{1}{4}\right)$ B) $\left(-7\dfrac{1}{6}, -1\dfrac{7}{10}\right)$

  C) $\left(-\dfrac{1}{2}, -5\dfrac{1}{2}\right)$ D) $\left(2\dfrac{5}{24}, \dfrac{39}{40}\right)$

3) Endpoint: $\left(\dfrac{1}{6}, -\dfrac{1}{7}\right)$, midpoint: $\left(-\dfrac{3}{2}, -\dfrac{1}{3}\right)$

  A) $\left(-3\dfrac{1}{6}, -\dfrac{11}{21}\right)$ B) $\left(1\dfrac{1}{2}, -1\dfrac{1}{2}\right)$

  C) $\left(\dfrac{5}{6}, \dfrac{2}{21}\right)$ D) $\left(\dfrac{1}{84}, -\dfrac{11}{12}\right)$

4) Endpoint: $\left(-\dfrac{3}{5}, \dfrac{8}{5}\right)$, midpoint: $\left(4\dfrac{7}{8}, \dfrac{7}{6}\right)$

  A) $\left(10\dfrac{7}{20}, \dfrac{11}{15}\right)$ B) $(2, -7)$

  C) $\left(\dfrac{1}{2}, 3\dfrac{1}{48}\right)$ D) $\left(-2\dfrac{59}{80}, \dfrac{13}{60}\right)$

5) Endpoint: $\left(-2, -2\dfrac{1}{5}\right)$, midpoint: $\left(\dfrac{1}{2}, -3\dfrac{3}{5}\right)$

  A) $\left(-4\dfrac{1}{2}, -2\dfrac{1}{2}\right)$ B) $(3, -5)$

  C) $\left(-1\dfrac{1}{4}, \dfrac{7}{10}\right)$ D) $\left(-2\dfrac{1}{10}, -1\dfrac{11}{20}\right)$

6) Endpoint: $\left(-\dfrac{6}{5}, 3\dfrac{3}{8}\right)$, midpoint: $\left(1, \dfrac{4}{5}\right)$

  A) $\left(1\dfrac{7}{80}, \dfrac{9}{10}\right)$

  B) $\left(2\dfrac{1}{2}, 2\dfrac{1}{2}\right)$

  C) $\left(-1\dfrac{1}{10}, 1\dfrac{23}{80}\right)$

  D) $\left(3\dfrac{1}{5}, -1\dfrac{31}{40}\right)$

7) Endpoint: $\left(1, -2\dfrac{4}{7}\right)$, midpoint: $\left(\dfrac{8}{5}, -\dfrac{5}{3}\right)$

  A) $\left(5, 6\dfrac{1}{2}\right)$ B) $\left(-\dfrac{11}{14}, -\dfrac{1}{30}\right)$

  C) $\left(2\dfrac{1}{5}, -\dfrac{16}{21}\right)$ D) $\left(-\dfrac{3}{10}, -\dfrac{19}{42}\right)$

8) Endpoint: $\left(2, -\dfrac{4}{3}\right)$, midpoint: $\left(-\dfrac{7}{6}, -\dfrac{2}{5}\right)$

  A) $\left(\dfrac{1}{3}, -\dfrac{47}{60}\right)$ B) $\left(-1, 1\dfrac{1}{2}\right)$

  C) $\left(-4\dfrac{1}{3}, \dfrac{8}{15}\right)$ D) $\left(1\dfrac{7}{12}, -\dfrac{7}{15}\right)$

9) Endpoint: $\left(-\dfrac{1}{4}, 2\dfrac{3}{5}\right)$, midpoint: $\left(4\dfrac{1}{2}, -3\dfrac{1}{8}\right)$

A) $\left(9\dfrac{1}{4}, -8\dfrac{17}{20}\right)$ B) $\left(-2\dfrac{1}{2}, 2\right)$

C) $\left(1\dfrac{7}{40}, \dfrac{11}{16}\right)$ D) $\left(-2\dfrac{3}{8}, 2\dfrac{69}{80}\right)$

10) Endpoint: $\left(\dfrac{1}{3}, -\dfrac{1}{2}\right)$, midpoint: $\left(-\dfrac{2}{7}, \dfrac{1}{6}\right)$

A) $\left(\dfrac{13}{42}, -\dfrac{1}{3}\right)$ B) $\left(4\dfrac{1}{2}, -1\right)$

C) $\left(-\dfrac{19}{21}, \dfrac{5}{6}\right)$ D) $\left(-\dfrac{1}{12}, -\dfrac{5}{84}\right)$

11) Endpoint: $\left(-1\dfrac{2}{3}, \dfrac{4}{3}\right)$, midpoint: $\left(3\dfrac{3}{4}, 0\right)$

A) $\left(-\dfrac{1}{6}, 1\dfrac{7}{8}\right)$ B) $\left(-2\dfrac{17}{24}, \dfrac{2}{3}\right)$

C) $\left(9\dfrac{1}{6}, -1\dfrac{1}{3}\right)$ D) $\left(-3\dfrac{1}{2}, 3\right)$

12) Endpoint: $\left(2\dfrac{1}{2}, \dfrac{1}{3}\right)$, midpoint: $\left(1\dfrac{1}{4}, 4\dfrac{7}{8}\right)$

A) $\left(1\dfrac{5}{12}, 3\dfrac{1}{16}\right)$ B) $\left(\dfrac{5}{8}, -2\dfrac{13}{48}\right)$

C) $\left(-5, 3\dfrac{1}{2}\right)$ D) $\left(0, 9\dfrac{5}{12}\right)$

13) Endpoint: $\left(2\dfrac{5}{8}, -\dfrac{4}{3}\right)$, midpoint: $\left(\dfrac{5}{7}, -2\right)$

A) $\left(\dfrac{31}{48}, -\dfrac{9}{14}\right)$ B) $\left(-1\dfrac{11}{56}, -2\dfrac{2}{3}\right)$

C) $(1, 0)$ D) $\left(\dfrac{107}{112}, \dfrac{1}{3}\right)$

14) Endpoint: $\left(8, \dfrac{7}{4}\right)$, midpoint: $\left(1, 3\dfrac{1}{3}\right)$

A) $\left(4\dfrac{7}{8}, 2\dfrac{1}{6}\right)$ B) $\left(-6, 4\dfrac{11}{12}\right)$

C) $\left(3\dfrac{1}{2}, -\dfrac{19}{24}\right)$ D) $\left(-1\dfrac{1}{2}, -6\right)$

15) Endpoint: $\left(3\dfrac{7}{8}, -3\dfrac{1}{4}\right)$, midpoint: $\left(2\dfrac{5}{6}, -3\dfrac{2}{3}\right)$

A) $\left(\dfrac{5}{16}, -\dfrac{5}{12}\right)$ B) $\left(1\dfrac{19}{24}, -4\dfrac{1}{12}\right)$

C) $\left(\dfrac{25}{48}, \dfrac{5}{24}\right)$ D) $\left(7, -\dfrac{1}{2}\right)$

16) Endpoint: $\left(\dfrac{3}{8}, -5\right)$, midpoint: $(-2, 2)$

A) $\left(1\dfrac{3}{16}, -3\dfrac{1}{2}\right)$ B) $\left(-4\dfrac{3}{8}, 9\right)$

C) $\left(-2, -4\dfrac{1}{2}\right)$ D) $\left(-2\dfrac{5}{16}, 0\right)$

17) Endpoint: $\left(-4\dfrac{6}{7}, -\dfrac{1}{2}\right)$, midpoint: $\left(-1\dfrac{7}{8}, \dfrac{3}{2}\right)$

A) $\left(6\dfrac{1}{2}, -4\dfrac{1}{2}\right)$ B) $\left(-1\dfrac{55}{112}, -1\right)$

C) $\left(1\dfrac{3}{28}, 3\dfrac{1}{2}\right)$ D) $\left(-2\dfrac{19}{28}, -\dfrac{3}{16}\right)$

18) Endpoint: $\left(-2\dfrac{1}{7}, \dfrac{7}{6}\right)$, midpoint: $\left(-\dfrac{7}{5}, -3\dfrac{5}{7}\right)$

A) $\left(-\dfrac{41}{84}, -2\dfrac{39}{70}\right)$ B) $\left(-\dfrac{23}{35}, -8\dfrac{25}{42}\right)$

C) $\left(-\dfrac{13}{35}, 2\dfrac{37}{84}\right)$ D) $\left(5, -3\dfrac{1}{2}\right)$

19) Endpoint: $\left(4\frac{1}{6},\ 1\frac{1}{5}\right)$, midpoint: $\left(-1\frac{1}{2},\ 1\frac{3}{8}\right)$

  A) $\left(2\frac{5}{6},\ -\frac{7}{80}\right)$ B) $\left(2\frac{41}{60},\ -\frac{1}{16}\right)$

  C) $(2,\ 5)$ D) $\left(-7\frac{1}{6},\ 1\frac{11}{20}\right)$

20) Endpoint: $\left(3,\ -\frac{8}{5}\right)$, midpoint: $(1,\ 1)$

  A) $\left(4\frac{1}{2},\ -4\frac{1}{2}\right)$ B) $\left(\frac{7}{10},\ 1\right)$

  C) $\left(-1,\ 3\frac{3}{5}\right)$ D) $\left(1,\ -1\frac{3}{10}\right)$

21) Endpoint: $\left(-3\frac{1}{6},\ -\frac{10}{7}\right)$, midpoint: $\left(\frac{4}{3},\ -2\right)$

  A) $\left(5\frac{5}{6},\ -2\frac{4}{7}\right)$ B) $\left(-2\frac{1}{4},\ \frac{2}{7}\right)$

  C) $\left(-2\frac{25}{84},\ -\frac{1}{3}\right)$ D) $(-5,\ -6)$

22) Endpoint: $\left(1\frac{5}{6},\ 4\frac{1}{6}\right)$, midpoint: $\left(1,\ 3\frac{5}{7}\right)$

  A) $\left(3,\ 2\frac{5}{14}\right)$ B) $\left(\frac{5}{12},\ \frac{19}{84}\right)$

  C) $\left(\frac{1}{6},\ 3\frac{11}{42}\right)$ D) $\left(3\frac{1}{2},\ 2\frac{1}{2}\right)$

23) Endpoint: $\left(-1\frac{4}{5},\ \frac{3}{2}\right)$, midpoint: $\left(1\frac{5}{6},\ \frac{4}{5}\right)$

  A) $\left(-1\frac{49}{60},\ \frac{7}{20}\right)$ B) $\left(5\frac{7}{15},\ \frac{1}{10}\right)$

  C) $\left(-\frac{3}{20},\ 1\frac{19}{60}\right)$ D) $\left(2\frac{1}{2},\ \frac{1}{2}\right)$

24) Endpoint: $\left(2\frac{3}{5},\ -\frac{1}{2}\right)$, midpoint: $\left(-1\frac{1}{2},\ -2\frac{2}{5}\right)$

  A) $\left(-5\frac{3}{5},\ -4\frac{3}{10}\right)$ B) $\left(2\frac{1}{20},\ \frac{19}{20}\right)$

  C) $(-6,\ 1)$ D) $\left(1\frac{1}{20},\ -1\frac{19}{20}\right)$

Answers to Assignment (ID: 9)

1) D 2) B 3) A 4) A
5) B 6) D 7) C 8) C
9) A 10) C 11) C 12) D
13) B 14) B 15) B 16) B
17) C 18) B 19) D 20) C
21) A 22) C 23) B 24) A

Geometry   Name_____

Assignment   Date_____ Period_____

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: $\left(-\frac{1}{5}, -4\frac{1}{2}\right)$, midpoint: $\left(-5, -\frac{1}{5}\right)$

   A) $\left(-2\frac{7}{20}, -2\frac{3}{5}\right)$ B) $\left(-9\frac{4}{5}, 4\frac{1}{10}\right)$

   C) $\left(1, -1\frac{1}{2}\right)$ D) $\left(2\frac{2}{5}, -2\frac{3}{20}\right)$

2) Endpoint: $\left(-3\frac{3}{4}, \frac{7}{8}\right)$, midpoint: $\left(-\frac{4}{7}, 1\frac{1}{2}\right)$

   A) $\left(-1\frac{7}{16}, \frac{13}{28}\right)$ B) $\left(-1\frac{33}{56}, -\frac{5}{16}\right)$

   C) $\left(\frac{1}{2}, 5\frac{1}{2}\right)$ D) $\left(2\frac{17}{28}, 2\frac{1}{8}\right)$

3) Endpoint: $\left(-1, 1\frac{2}{3}\right)$, midpoint: $\left(-\frac{4}{5}, -2\frac{1}{3}\right)$

   A) $\left(\frac{1}{3}, -1\frac{17}{30}\right)$ B) $\left(-2\frac{1}{2}, 6\right)$

   C) $\left(-\frac{3}{5}, -6\frac{1}{3}\right)$ D) $\left(-\frac{1}{10}, 2\right)$

4) Endpoint: $\left(\frac{2}{3}, \frac{4}{3}\right)$, midpoint: $\left(-\frac{15}{8}, 1\right)$

   A) $\left(1, -\frac{7}{16}\right)$ B) $\left(-4\frac{5}{12}, \frac{2}{3}\right)$

   C) $\left(1\frac{1}{2}, 6\right)$ D) $\left(1\frac{13}{48}, \frac{1}{6}\right)$

5) Endpoint: $\left(-2, \frac{3}{8}\right)$, midpoint: $\left(2, \frac{1}{2}\right)$

   A) $\left(-2, -\frac{1}{16}\right)$ B) $\left(6, \frac{5}{8}\right)$

   C) $\left(1\frac{1}{2}, -1\frac{1}{2}\right)$ D) $\left(-\frac{13}{16}, 1\frac{1}{4}\right)$

6) Endpoint: $\left(\frac{3}{2}, 4\frac{2}{5}\right)$, midpoint: $\left(2\frac{2}{7}, 3\frac{1}{2}\right)$

   A) $\left(2\frac{19}{20}, 2\frac{25}{28}\right)$ B) $\left(-\frac{11}{28}, \frac{9}{20}\right)$

   C) $\left(3\frac{1}{2}, -2\right)$ D) $\left(3\frac{1}{14}, 2\frac{3}{5}\right)$

7) Endpoint: $(1, -1)$, midpoint: $\left(\frac{2}{5}, \frac{5}{3}\right)$

   A) $\left(\frac{3}{10}, -1\frac{1}{3}\right)$ B) $\left(-\frac{1}{5}, 4\frac{1}{3}\right)$

   C) $\left(0, 1\frac{1}{30}\right)$ D) $\left(-\frac{1}{2}, 1\right)$

8) Endpoint: $\left(-\frac{1}{2}, -\frac{13}{7}\right)$, midpoint: $\left(1, -2\frac{5}{7}\right)$

   A) $\left(-\frac{3}{4}, \frac{3}{7}\right)$ B) $\left(2\frac{1}{2}, -3\frac{4}{7}\right)$

   C) $\left(-1\frac{5}{28}, -\frac{6}{7}\right)$ D) $\left(\frac{1}{2}, -\frac{1}{2}\right)$

9) Endpoint: $\left(-\dfrac{1}{4}, -2\dfrac{1}{2}\right)$, midpoint: $\left(-2, \dfrac{8}{7}\right)$

A) $\left(\dfrac{7}{8}, -1\dfrac{23}{28}\right)$ B) $(-7, 3)$

C) $\left(-3\dfrac{3}{4}, 4\dfrac{11}{14}\right)$ D) $\left(-1\dfrac{3}{8}, -\dfrac{3}{7}\right)$

10) Endpoint: $\left(-\dfrac{3}{2}, -\dfrac{6}{5}\right)$, midpoint: $\left(-3\dfrac{2}{3}, -3\dfrac{2}{3}\right)$

A) $\left(-5\dfrac{5}{6}, -6\dfrac{2}{15}\right)$ B) $\left(1\dfrac{1}{12}, 1\dfrac{7}{30}\right)$

C) $\left(-1\dfrac{7}{20}, -3\dfrac{2}{3}\right)$ D) $\left(-4\dfrac{1}{2}, 2\dfrac{1}{2}\right)$

11) Endpoint: $\left(\dfrac{13}{7}, -\dfrac{1}{2}\right)$, midpoint: $\left(0, \dfrac{9}{7}\right)$

A) $\left(\dfrac{19}{28}, \dfrac{9}{14}\right)$ B) $\left(-\dfrac{1}{2}, 3\dfrac{1}{2}\right)$

C) $\left(\dfrac{13}{14}, -\dfrac{25}{28}\right)$ D) $\left(-1\dfrac{6}{7}, 3\dfrac{1}{14}\right)$

12) Endpoint: $\left(\dfrac{5}{8}, -\dfrac{9}{7}\right)$, midpoint: $\left(-\dfrac{1}{2}, -\dfrac{1}{2}\right)$

A) $\left(-1\dfrac{5}{8}, \dfrac{2}{7}\right)$ B) $\left(-\dfrac{37}{112}, -\dfrac{1}{2}\right)$

C) $\left(\dfrac{9}{16}, -\dfrac{11}{28}\right)$ D) $\left(0, 3\dfrac{1}{2}\right)$

13) Endpoint: $\left(\dfrac{8}{7}, -5\right)$, midpoint: $\left(\dfrac{1}{5}, 1\dfrac{1}{6}\right)$

A) $\left(-\dfrac{26}{35}, 7\dfrac{1}{3}\right)$ B) $\left(5, -1\dfrac{1}{2}\right)$

C) $\left(\dfrac{33}{70}, -3\dfrac{1}{12}\right)$ D) $\left(-1\dfrac{13}{14}, \dfrac{41}{60}\right)$

14) Endpoint: $\left(\dfrac{4}{7}, 4\dfrac{4}{5}\right)$, midpoint: $\left(-2\dfrac{5}{6}, -\dfrac{1}{6}\right)$

A) $\left(-6\dfrac{5}{21}, -5\dfrac{2}{15}\right)$ B) $\left(5\dfrac{1}{2}, 2\right)$

C) $\left(2\dfrac{24}{35}, -1\dfrac{1}{2}\right)$ D) $\left(1\dfrac{59}{84}, 2\dfrac{29}{60}\right)$

15) Endpoint: $\left(\dfrac{7}{6}, -\dfrac{1}{7}\right)$, midpoint: $\left(-\dfrac{1}{4}, \dfrac{3}{5}\right)$

A) $\left(-1\dfrac{1}{2}, -6\right)$ B) $\left(-1\dfrac{2}{3}, 1\dfrac{12}{35}\right)$

C) $\left(\dfrac{43}{84}, \dfrac{7}{40}\right)$ D) $\left(\dfrac{17}{24}, -\dfrac{13}{35}\right)$

16) Endpoint: $\left(2, 4\dfrac{1}{2}\right)$, midpoint: $\left(-3\dfrac{1}{8}, 4\dfrac{5}{8}\right)$

A) $\left(3\dfrac{1}{4}, \dfrac{3}{4}\right)$ B) $(-2, -1)$

C) $\left(2\dfrac{9}{16}, -\dfrac{1}{16}\right)$ D) $\left(-8\dfrac{1}{4}, 4\dfrac{3}{4}\right)$

17) Endpoint: $\left(\dfrac{4}{5}, 2\dfrac{1}{4}\right)$, midpoint: $\left(-5, -\dfrac{1}{2}\right)$

A) $(4, 0)$ B) $\left(2\dfrac{9}{10}, 1\dfrac{3}{8}\right)$

C) $\left(1\dfrac{21}{40}, -2\dfrac{3}{4}\right)$ D) $\left(-10\dfrac{4}{5}, -3\dfrac{1}{4}\right)$

18) Endpoint: $\left(-2\dfrac{3}{4}, -7\right)$, midpoint: $\left(3\dfrac{1}{2}, -\dfrac{2}{5}\right)$

A) $\left(-4\dfrac{7}{8}, 1\dfrac{11}{20}\right)$ B) $\left(0, -1\dfrac{1}{2}\right)$

C) $\left(9\dfrac{3}{4}, 6\dfrac{1}{5}\right)$ D) $\left(-3\dfrac{1}{8}, -3\dfrac{3}{10}\right)$

19) Endpoint: $\left(-1\frac{3}{5}, -\frac{4}{3}\right)$, midpoint: $\left(3\frac{1}{8}, 2\frac{1}{5}\right)$

A) $\left(7\frac{17}{20}, 5\frac{11}{15}\right)$ B) $\left(-2\frac{1}{2}, 7\right)$

C) $\left(-1\frac{7}{15}, 2\frac{53}{80}\right)$ D) $\left(-2\frac{29}{80}, -1\frac{23}{30}\right)$

20) Endpoint: $\left(-3\frac{2}{5}, -\frac{1}{2}\right)$, midpoint: $\left(\frac{1}{3}, 2\right)$

A) $\left(4\frac{1}{15}, 4\frac{1}{2}\right)$ B) $\left(-1\frac{13}{15}, -1\frac{1}{4}\right)$

C) $\left(-1\frac{19}{20}, 1\frac{1}{6}\right)$ D) $\left(0, 1\frac{1}{2}\right)$

21) Endpoint: $\left(2\frac{1}{4}, 3\frac{1}{2}\right)$, midpoint: $\left(-2, \frac{7}{5}\right)$

A) $\left(-1\frac{1}{2}, -1\frac{1}{2}\right)$ B) $\left(-6\frac{1}{4}, -\frac{7}{10}\right)$

C) $\left(2\frac{1}{8}, 1\frac{1}{20}\right)$ D) $\left(2\frac{7}{8}, -\frac{3}{10}\right)$

22) Endpoint: $\left(3\frac{3}{4}, 2\right)$, midpoint: $\left(-\frac{6}{7}, 4\frac{2}{5}\right)$

A) $(0, -3)$ B) $\left(2\frac{17}{56}, -1\frac{1}{5}\right)$

C) $\left(2\frac{7}{8}, 1\frac{27}{35}\right)$ D) $\left(-5\frac{13}{28}, 6\frac{4}{5}\right)$

23) Endpoint: $\left(1\frac{2}{3}, 2\frac{5}{7}\right)$, midpoint: $\left(1\frac{1}{8}, \frac{2}{3}\right)$

A) $\left(5\frac{1}{2}, 2\right)$ B) $\left(\frac{13}{48}, 1\frac{1}{42}\right)$

C) $\left(2\frac{4}{21}, \frac{43}{48}\right)$ D) $\left(\frac{7}{12}, -1\frac{8}{21}\right)$

24) Endpoint: $\left(\frac{1}{3}, -\frac{7}{5}\right)$, midpoint: $\left(-\frac{7}{6}, 2\frac{1}{6}\right)$

A) $\left(\frac{1}{2}, -1\right)$ B) $\left(-\frac{8}{15}, \frac{1}{2}\right)$

C) $\left(\frac{3}{4}, -1\frac{47}{60}\right)$ D) $\left(-2\frac{2}{3}, 5\frac{11}{15}\right)$

Answers to Assignment (ID: 10)

1) B   2) D   3) C   4) B

5) B   6) D   7) B   8) B

9) C   10) A   11) D   12) A

13) A   14) A   15) B   16) D

17) D   18) C   19) A   20) A

21) B   22) D   23) D   24) D