Geometry   Name_____

Assignment

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Write the standard form of the equation of the line described.

2) through: $(-5, -5)$, perp. to $y = -5x + 3$

   A) $x - 5y = 20$ B) $3x + y = 4$

   C) $x - 3y = -4$ D) $x + y = -4$

1) through: $(-2, -1)$, perp. to $y = \frac{1}{2}x + 3$

   A) $3x + 2y = -4$ B) $x + 2y = 4$

3) through: $(3, 3)$, perp. to $y = -\frac{1}{2}x + 2$

   A) $2x - y = 3$ B) $x + y = -4$

   C) $4x - y = -4$ D) $x - y = 4$

4) through: $(-5, 2)$, perp. to $y = \frac{5}{4}x + 5$

   A) $5x - 10y = 4$

   B) $4x + 5y = -10$

   C) $5x + 4y = -10$

   D) $5x + 10y = -4$

5) through: $(5, 2)$, perp. to $y = -\frac{5}{3}x + 1$

   A) $5x - 3y = 20$

   B) $5x + 3y = 20$

   C) $5x + 3y = -20$

   D) $3x - 5y = 5$

6) through: $(-4, 5)$, perp. to $y = \frac{4}{7}x + 2$

   A) $7x + 4y = 28$

   B) $7x - 4y = -4$

   C) $4x + 7y = 0$

   D) $7x + 4y = -8$

7) through: $(1, -2)$, perp. to $y = x + 1$

   A) $x + y = -1$ B) $x - y = 1$

   C) $x - y = -1$ D) $x + y = 1$

8) through: $(-2, 4)$, perp. to $y = \frac{1}{2}x + 2$

   A) $y = -3$ B) $2x - y = 0$

   C) $2x + y = 0$ D) $x + y = 3$

9) through: $(-5, 1)$, perp. to $y = -5x + 2$

   A) $x - y = -1$ B) $x - 5y = -10$

   C) $x - y = -2$ D) $x - y = 2$

10) through: $(3, -3)$, perp. to $y = \frac{3}{5}x + 1$

   A) $4x - 6y = 3$

   B) $6x + 4y = -3$

   C) $4x + 6y = -3$

   D) $5x + 3y = 6$

11) through: $(2, 1)$, perp. to $y = x - 4$

   A) $x + 3y = -2$

   B) $2x + y = -1$

   C) $x + y = 3$

   D) $3x + y = 2$

12) through: $(1, 2)$, perp. to $y = 5$

   A) $x = 1$ B) $y = 0$

   C) $-y = 0$ D) $x = 0$

13) through: $(1, 3)$, perp. to $y = x$

   A) $x - y = -2$ B) $x - y = -3$

   C) $x + y = 4$ D) $x - y = 1$

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14) through: $(5, -4)$, perp. to $y = \dfrac{5}{8}x + 1$

  A) $-8y = 5$ B) $8x + 5y = 20$

  C) $8y = 5$ D) $-8y = -5$

15) through: $(-1, -1)$, perp. to $y = \dfrac{1}{4}x$

  A) $x + y = 5$ B) $4x + y = -5$

  C) $5x - y = -5$ D) $5x - y = 5$

16) through: $(-1, 0)$, perp. to $y = -\dfrac{4}{5}x$

  A) $5x + 4y = 8$

  B) $5x - 4y = -8$

  C) $5x - 4y = -5$

  D) $x + 2y = 4$

17) through: $(0, 3)$, perp. to $y = \dfrac{2}{7}x$

  A) $7x - 2y = -2$

  B) $x - y = 1$

  C) $5x + 2y = -2$

  D) $7x + 2y = 6$

18) through: $(0, 1)$, perp. to $y = -\dfrac{2}{5}x - 1$

  A) $5x - 2y = -2$ B) $x - y = 1$

  C) $2x - y = 1$ D) $2x + y = -1$

19) through: $(-5, 0)$, perp. to $y = -1$

  A) $x = -5$ B) $y = 0$

  C) $3x = 5$ D) $-3y = 0$

20) through: $(-1, -1)$, perp. to $x = 0$

  A) $x + y = -5$ B) $-y = -1$

  C) $x + y = 5$ D) $y = -1$

21) through: $(0, 5)$, perp. to $y = \dfrac{1}{7}x - 2$

  A) $x + 4y = -5$

  B) $5x - 4y = -1$

  C) $x - 4y = 5$

  D) $7x + y = 5$

22) through: $(-1, -1)$, perp. to $y = -6x - 2$

  A) $6x - y = 5$ B) $x - 6y = 5$

  C) $x + 5y = 6$ D) $6x - 5y = 1$

23) through: $(-1, -5)$, perp. to $y = -\dfrac{1}{5}x - 3$

  A) $5x - y = 0$ B) $x - 3y = 9$

  C) $x - 3y = -5$ D) $3x + y = 9$

24) through: $(0, 3)$, perp. to $y = -2x - 3$

  A) $2x - y = -8$ B) $x - 2y = -6$

  C) $2x + y = -8$ D) $2x - y = 8$

Answers to Assignment (ID: 1)

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

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Assignment

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Write the standard form of the equation of the line described.

1) through: $(1, 4)$, perp. to $y = -\dfrac{1}{3}x - 1$

   A) $x - y = 1$ B) $3x - y = -1$
   C) $3x + y = -1$ D) $x - 3y = 1$

2) through: $(2, 3)$, perp. to $y = 2x - 1$

   A) $2x - y = 4$ B) $x - 2y = -8$
   C) $x + 2y = -3$ D) $x + 2y = 8$

3) through: $(-3, 3)$, perp. to $x = 0$

   A) $y = 3$ B) $2x - 3y = -3$
   C) $3y = 1$ D) $-y = 3$

4) through: $(5, -5)$, perp. to $y = \dfrac{5}{8}x - 1$

   A) $4x + 5y = 15$
   B) $4x + 5y = -15$
   C) $4x - 5y = -15$
   D) $8x + 5y = 15$

5) through: $(-1, -1)$, perp. to $y = -\dfrac{1}{5}x - 2$

   A) $2x + 5y = -1$ B) $2x + 5y = -5$
   C) $2x - 5y = -5$ D) $5x - y = -4$

6) through: $(-5, -5)$, perp. to $y = -\dfrac{1}{2}x - 2$

   A) $x + y = 3$ B) $2x - y = -5$
   C) $x + y = 0$ D) $x + y = 2$

7) through: $(1, -2)$, perp. to $y = -\dfrac{1}{2}x - 3$

   A) $2x - y = -5$ B) $2x - y = 4$
   C) $2x + y = 5$ D) $2x - y = 5$

8) through: $(4, 1)$, perp. to $y = -\dfrac{2}{3}x - 2$

   A) $3x + 2y = -10$
   B) $3x - 2y = -10$
   C) $3x + 2y = 6$
   D) $3x - 2y = 10$

9) through: $(-3, 5)$, perp. to $y = \dfrac{3}{8}x - 2$

   A) $3x - 9y = -8$
   B) $2x + 9y = 3$
   C) $8x - 9y = -3$
   D) $8x + 3y = -9$

10) through: $(-5, 1)$, perp. to $y = \dfrac{5}{4}x - 2$

   A) $3x - 4y = -16$
   B) $3x + 4y = -15$
   C) $5x + 4y = -15$
   D) $4x + 5y = -15$

11) through: $(2, -3)$, perp. to $y = 2x - 2$

   A) $2x + y = -2$ B) $x - 4y = -2$
   C) $2x + y = 2$ D) $x + 2y = -4$

12) through: $(-1, 4)$, perp. to $y = \dfrac{1}{6}x - 3$

   A) $6x + y = -2$ B) $6x - y = -2$
   C) $4x - y = 2$ D) $6x - y = 2$

13) through: $(4, -3)$, perp. to $y = \dfrac{4}{3}x - 3$

   A) $y = 1$ B) $x = -1$

14) through: $(1, 3)$, perp. to $y = -\dfrac{1}{2}x - 3$

   A) $x + 2y = -1$ B) $x - 2y = 1$
   C) $2x - y = -1$ D) $x + 2y = -2$

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15) through: $(-4, 0)$, perp. to $y = 4x - 3$

   A) $x + 4y = -4$ B) $2x - 4y = 1$

   C) $12x + 4y = 1$ D) $x - 4y = 12$

16) through: $(-3, -1)$, perp. to $y = -\dfrac{3}{2}x - 4$

   A) $2x - 3y = -3$ B) $2x - 15y = -3$

   C) $5x + 15y = 3$ D) $x + 3y = 12$

17) through: $(-5, -4)$, perp. to $y = -\dfrac{5}{6}x - 3$

   A) $6x - 5y = -10$

   B) $6x + 5y = -10$

   C) $6x - 25y = 5$

   D) $25x + 6y = -5$

18) through: $(2, 2)$, perp. to $y = 2x - 3$

   A) $x + 2y = 6$

   B) $x - 2y = 6$

   C) $3x + 2y = -6$

   D) $3x - 2y = -6$

19) through: $(-1, -2)$, perp. to $y = -\dfrac{1}{5}x - 4$

   A) $x + 5y = 0$ B) $5x - y = -3$

   C) $x - 5y = 0$ D) $x - 5y = 3$

20) through: $(-4, -5)$, perp. to $y = -\dfrac{2}{5}x - 4$

   A) $5x + 2y = 10$ B) $5x - 2y = 6$

   C) $6x - 2y = -5$ D) $5x - 2y = -10$

21) through: $(1, -5)$, perp. to $x = 0$

   A) $y = -5$ B) $5y = 1$

   C) $-5y = -1$ D) $5y = -1$

22) through: $(4, 2)$, perp. to $y = \dfrac{4}{3}x - 4$

   A) $x - 2y = -8$

   B) $3x + 4y = 20$

   C) $2x + y = 8$

   D) $x + 2y = -8$

23) through: $(-5, -2)$, perp. to $y = \dfrac{10}{3}x - 3$

   A) $3x + 10y = -35$

   B) $2x + 5y = -25$

   C) $2x + 5y = 20$

   D) $5x - 2y = 25$

24) through: $(-5, -5)$, perp. to $y = -6x - 3$

   A) $x - 6y = 25$ B) $25x + y = 6$

   C) $x - 25y = 6$ D) $25x - y = -6$

Answers to Assignment (ID: 2)

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

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Assignment   Date_____ Period_____

Write the standard form of the equation of the line described.

1) through: $(-4, 2)$, perp. to $y = \dfrac{1}{6}x - 4$

   A) $5x - 22y = 1$
   B) $110x + 5y = 22$
   C) $22x + 5y = -2$

2) through: $(-5, 4)$, perp. to $y = \dfrac{1}{5}x + 5$

   A) $20x + y = 4$ B) $x - 4y = -3$
   C) $5x + y = -3$ D) $5x + y = -21$

3) through: $(-5, -3)$, perp. to $y = -5x - 5$

   A) $3x - 10y = 5$ B) $5x - 10y = -4$
   C) $x - 5y = 10$ D) $4x + 5y = -10$

4) through: $(-4, 0)$, perp. to $y = \dfrac{7}{2}x - 4$

   A) $3x - 8y = -2$
   B) $7x + 2y = -8$
   C) $2x + 7y = -8$
   D) $3x + 2y = 8$

5) through: $(-5, 0)$, perp. to $x = 0$

   A) $2x - y = 1$ B) $2x - y = 0$
   C) $y = 0$ D) $x + 2y = -1$

6) through: $(5, -2)$, perp. to $y = 3x + 5$

   A) $x - 3y = 1$ B) $4x - 6y = 3$
   C) $4x + 3y = 1$ D) $x + 3y = -1$

7) through: $(5, -5)$, perp. to $y = \dfrac{5}{3}x + 5$

   A) $3x + 5y = -10$
   B) $15x + 5y = 3$
   C) $3x - 5y = 10$
   D) $3x + 5y = 5$

8) through: $(4, 5)$, perp. to $y = -\dfrac{4}{3}x$

   A) $3x + 4y = 0$
   B) $3x - 4y = -12$
   C) $4x - 3y = 0$
   D) $3x - 4y = -8$

9) through: $(4, 5)$, perp. to $y = -2x - 1$

   A) $x - 2y = -6$
   B) $x - 3y = 5$
   C) $3x - y = 5$
   D) $6x - 2y = -1$

10) through: $(5, 3)$, perp. to $y = -2$

   A) $x = 5$ B) $2x = 0$
   C) $x = 0$ D) $3x = 0$

11) through: $(4, 1)$, perp. to $y = \dfrac{4}{3}x + 5$

   A) $4x - 3y = 0$
   B) $3x + 4y = 16$
   C) $4x - 3y = 12$
   D) $12x - 3y = -4$

12) through: $(-2, 4)$, perp. to $y = \dfrac{2}{9}x + 5$

   A) $9x - 2y = -10$
   B) $9x + 10y = -2$
   C) $9x + 2y = -10$
   D) $9x + 10y = 2$

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13) through: $(-5, 0)$, perp. to $y = x + 4$

   A) $4x + y = -4$ B) $4x - y = 5$
   C) $4x - y = 4$ D) $x + y = -5$

14) through: $(3, -3)$, perp. to $y = -3x + 4$

   A) $12x - 3y = 1$ B) $x - 3y = 12$
   C) $x - 4y = -3$ D) $x - 4y = 3$

15) through: $(1, 4)$, perp. to $y = -\dfrac{1}{7}x$

   A) $7x - y = 3$ B) $3x + y = -5$
   C) $7x + y = 3$ D) $3x - y = -3$

16) through: $(-3, -1)$, perp. to $y = \dfrac{3}{2}x + 4$

   A) $3x + y = 12$ B) $3x + y = -12$
   C) $2x + 3y = 9$ D) $2x + 3y = -9$

17) through: $(2, 3)$, perp. to $y = -\dfrac{1}{2}x + 4$

   A) $2x + y = 2$ B) $2x - y = 1$
   C) $2x + y = -1$ D) $5x + y = 2$

18) through: $(-2, -1)$, perp. to $y = -2x + 4$

   A) $y = 2$ B) $-y = -2$
   C) $x = -2$ D) $x - 2y = 0$

19) through: $(-4, 5)$, perp. to $y = \dfrac{4}{5}x + 3$

   A) $5x - 4y = -20$
   B) $4x - 5y = -20$
   C) $5x + 4y = 0$
   D) $5x - 4y = 0$

20) through: $(3, 2)$, perp. to $y = -3x + 3$

   A) $3x + y = 6$ B) $x - 3y = -3$
   C) $x + 3y = -3$ D) $x + 3y = 6$

21) through: $(-2, 4)$, perp. to $y = x + 3$

   A) $x + y = 1$ B) $x + y = -2$
   C) $x + y = 2$ D) $x - y = -3$

22) through: $(-3, 3)$, perp. to $y = \dfrac{3}{2}x + 1$

   A) $2x - 3y = -3$ B) $2x + 3y = 3$
   C) $3x + 3y = -2$ D) $x + 12y = 3$

23) through: $(5, 1)$, perp. to $y = \dfrac{5}{2}x + 2$

   A) $2x + 5y = 20$
   B) $2x + 5y = 15$
   C) $2x + 5y = -15$
   D) $2x - 5y = -15$

24) through: $(2, -3)$, perp. to $y = \dfrac{2}{7}x + 3$

   A) $5x + 8y = -2$
   B) $7x + 2y = 8$
   C) $5x + 8y = 2$
   D) $5x + 2y = -8$

Answers to Assignment (ID: 3)

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

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Write the standard form of the equation of the line described.

1) through: $(-1, 4)$, perp. to $y = -x + 3$

   A) $5x - y = 3$ B) $x - y = -5$

   C) $x - 3y = 12$ D) $x + 3y = -3$

2) through: $(-4, 0)$, perp. to $y = -\dfrac{4}{5}x + 3$

   A) $4x - 20y = -5$

   B) $x - 5y = -20$

   C) $x + 5y = 20$

   D) $5x - 4y = -20$

3) through: $(2, 3)$, perp. to $y = -\dfrac{3}{4}x - 5$

   A) $4x + 3y = 1$ B) $3x - y = -1$

   C) $x + 3y = 1$ D) $4x - 3y = -1$

4) through: $(2, 0)$, perp. to $y = \dfrac{1}{5}x + 5$

   A) $x + 4y = 10$ B) $5x + y = 10$

   C) $4x - y = -4$ D) $x - 4y = 10$

5) through: $(1, 2)$, perp. to $y = \dfrac{1}{4}x + 4$

   A) $x + 4y = -6$

   B) $2x + 2y = -3$

   C) $4x + y = 6$

   D) $2x + 2y = 3$

6) through: $(2, -2)$, perp. to $y = -2x + 5$

   A) $x + 2y = -6$ B) $4x + y = -2$

   C) $x - 2y = 6$ D) $4x - y = 2$

7) through: $(1, 5)$, perp. to $y = -\dfrac{3}{4}x + 4$

   A) $2x + 3y = -3$

   B) $4x - 3y = 6$

   C) $x + 3y = 6$

   D) $4x - 3y = -11$

8) through: $(1, -1)$, perp. to $y = -3x + 3$

   A) $3x - y = -3$ B) $x + 3y = -12$

   C) $x + 3y = -2$ D) $x - 3y = 4$

9) through: $(2, -4)$, perp. to $y = \dfrac{7}{3}x + 2$

   A) $3x + 7y = -22$

   B) $3x + 7y = 0$

   C) $3x + 7y = 22$

   D) $3x - 7y = 22$

10) through: $(-5, 2)$, perp. to $y = 2x - 3$

   A) $x - y = -2$ B) $5x + 2y = 1$

   C) $x + 2y = -1$ D) $x - 2y = 6$

11) through: $(3, -1)$, perp. to $y = 3x + 1$

   A) $x = -3$ B) $x + 3y = 0$

   C) $4x = 3$ D) $x - 3y = 0$

12) through: $(1, 1)$, perp. to $y = 2$

   A) $x = 1$ B) $y = 1$

   C) $x - y = 1$ D) $3x - y = 1$

13) through: $(1, -2)$, perp. to $y = -x + 2$

   A) $x + y = -3$ B) $x - y = 3$

   C) $3x + 4y = -1$ D) $x - 4y = 1$

14) through: $(-1, 4)$, perp. to $y = x$

   A) $x - 3y = 6$ B) $x - 3y = -3$

   C) $x - 3y = -2$ D) $x + y = 3$

15) through: $(3, -4)$, perp. to $y = \dfrac{3}{7}x$

   A) $x + 3y = 0$

   B) $x + 3y = -4$

   C) $7x + 3y = 9$

   D) $3x - 3y = -4$

16) through: $(4, -5)$, perp. to $y = \dfrac{2}{5}x$

   A) $3x - 8y = -2$

   B) $5x + 2y = 10$

   C) $5x - 8y = 2$

   D) $x + 8y = -2$

17) through: $(-4, 0)$, perp. to $y = -x$

   A) $4x - y = -4$ B) $4x - y = 4$

   C) $4x - y = -2$ D) $x - y = -4$

18) through: $(1, -5)$, perp. to $x = 0$

   A) $2x - y = 0$ B) $y = -5$

   C) $-y = 5$ D) $x + 5y = 0$

19) through: $(-2, -1)$, perp. to $y = \dfrac{1}{2}x$

   A) $2x - y = -5$ B) $2x + y = 5$

   C) $2x - y = 5$ D) $2x + y = -5$

20) through: $(5, -4)$, perp. to $x = 0$

   A) $5x - y = -2$ B) $y = -4$

   C) $-y = 4$ D) $y = 2$

21) through: $(3, 2)$, perp. to $y = -\dfrac{1}{2}x - 1$

   A) $x + 4y = -4$ B) $2x - y = 4$

   C) $5x + y = -4$ D) $x - 4y = 0$

22) through: $(-3, -1)$, perp. to $y = 3x$

   A) $x + 3y = -6$ B) $x + y = -3$

   C) $3x - y = 3$ D) $3x - y = -3$

23) through: $(-4, 5)$, perp. to $y = \dfrac{2}{3}x - 1$

   A) $2x - 2y = -1$

   B) $2x - 2y = 1$

   C) $x - y = 0$

   D) $3x + 2y = -2$

24) through: $(5, 2)$, perp. to $y = -\dfrac{5}{3}x - 1$

   A) $3x - 5y = -5$ B) $5x + 3y = 5$

   C) $3x + 5y = -5$ D) $3x - 5y = 5$

Answers to Assignment (ID: 4)

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

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Write the standard form of the equation of the line described.

1) through: $(1, 0)$, perp. to $x = 0$

  A) $y = 0$ B) $x = -5$
  C) $x = 0$ D) $2x = 0$

2) through: $(-2, 4)$, perp. to $y = \frac{1}{2}x - 1$

  A) $5x + 5y = -2$
  B) $2x + y = 0$
  C) $x - 2y = 0$
  D) $2x + 5y = 2$

3) through: $(-5, 0)$, perp. to $y = -5x - 1$

  A) $3x + 5y = -5$
  B) $x + 5y = 5$
  C) $x - 5y = -5$
  D) $3x + 5y = 5$

4) through: $(3, -3)$, perp. to $y = \frac{3}{5}x - 1$

  A) $5x + 3y = -6$
  B) $x - 3y = -6$
  C) $x - 3y = -15$
  D) $5x + 3y = 6$

5) through: $(4, -2)$, perp. to $y = \frac{4}{5}x + 2$

  A) $5x + 4y = 12$
  B) $4x + 12y = -5$
  C) $5x - 12y = 4$
  D) $5x + 12y = 4$

6) through: $(-3, -1)$, perp. to $y = -\frac{3}{4}x - 2$

  A) $5x - 9y = 3$ B) $x + 9y = -3$
  C) $9x - 9y = 5$ D) $4x - 3y = -9$

7) through: $(5, -4)$, perp. to $y = \frac{5}{8}x - 2$

  A) $8x + 5y = 20$
  B) $x - 20y = 5$
  C) $5x - 8y = -20$
  D) $8x - 5y = 20$

8) through: $(1, 2)$, perp. to $y = \frac{1}{2}x - 3$

  A) $3x + y = 5$ B) $3x - y = 2$
  C) $2x + y = 4$ D) $4x + y = -2$

9) through: $(-1, -2)$, perp. to $y = -\frac{1}{7}x - 3$

  A) $7x - y = -5$ B) $7x - y = -4$
  C) $7x - y = 4$ D) $7x - y = 1$

10) through: $(-2, -5)$, perp. to $y = 3x + 3$

  A) $x - 3y = -17$
  B) $17x - 3y = 1$
  C) $x + 3y = -17$
  D) $4x + 3y = 12$

11) through: $(-2, 3)$, perp. to $y = \frac{4}{7}x + 2$

  A) $7x + 4y = -2$ B) $x + 4y = -4$
  C) $x - 2y = 2$ D) $x + 4y = -2$

12) through: $(4, 2)$, perp. to $y = -\frac{7}{5}x + 4$

  A) $5x - 7y = -14$
  B) $6x - 7y = 5$
  C) $5x - 7y = 6$
  D) $7x - 5y = -14$

13) through: $(2, 1)$, perp. to $y = \dfrac{3}{4}x + 5$

   A) $3x + 4y = 12$
   B) $3x - 4y = 12$
   C) $4x + 3y = 11$
   D) $3x - 4y = -12$

14) through: $(-3, 5)$, perp. to $y = \dfrac{4}{7}x$

   A) $7x + 4y = -1$
   B) $x - y = -2$
   C) $x + 4y = 8$
   D) $x + 4y = -8$

15) through: $(0, 0)$, perp. to $y = -\dfrac{3}{2}x - 4$

   A) $-3y = -2$ B) $2x - 3y = 0$
   C) $3x - 2y = 12$ D) $3x - 2y = 0$

16) through: $(-4, -1)$, perp. to $y = -8x - 1$

   A) $3x + 8y = -16$
   B) $3x - 8y = -16$
   C) $x - 8y = 4$
   D) $3x - 8y = 4$

17) through: $(-4, -5)$, perp. to $y = -\dfrac{4}{5}x - 1$

   A) $x - 2y = 0$ B) $x = 2$
   C) $5x - 4y = 0$ D) $x = -2$

18) through: $(-3, 3)$, perp. to $y = -\dfrac{1}{2}x - 2$

   A) $4x - y = -9$ B) $5x - y = 9$
   C) $4x + y = 9$ D) $2x - y = -9$

19) through: $(-1, -4)$, perp. to $y = -\dfrac{1}{5}x + 5$

   A) $x - 5y = 1$ B) $5x - y = -1$
   C) $x + 5y = -1$ D) $x + 5y = 1$

20) through: $(-4, -2)$, perp. to $y = 2$

   A) $x = -2$ B) $x = -4$
   C) $x + 4y = -2$ D) $y = 2$

21) through: $(2, 2)$, perp. to $y = x - 4$

   A) $x - 2y = -2$
   B) $x - 2y = -1$
   C) $x + y = 4$
   D) $x - y = 5$

22) through: $(-3, -1)$, perp. to $y = -x - 4$

   A) $4x - y = 2$ B) $4x + y = -3$
   C) $4x - y = 3$ D) $x - y = -2$

23) through: $(-4, -5)$, perp. to $y = -\dfrac{2}{5}x - 2$

   A) $5x - 2y = -10$
   B) $10x + 2y = -3$
   C) $5x + 2y = -10$
   D) $10x + 2y = 3$

24) through: $(4, 1)$, perp. to $y = -\dfrac{2}{3}x - 5$

   A) $3x - 2y = -6$
   B) $x - 2y = 6$
   C) $x + 2y = 6$
   D) $3x - 2y = 10$

Answers to Assignment (ID: 5)

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

Geometry   Name_____

Assignment   Date_____ Period_____

Write the standard form of the equation of the line described.

1) through: $(-5, -4)$, perp. to $y = 5x - 4$

   A) $x + 5y = -25$
   B) $5x + y = -25$
   C) $5x - y = -5$
   D) $5x - y = 5$

2) through: $(-3, 4)$, perp. to $y = \frac{3}{8}x - 5$

   A) $x - y = -4$
   B) $x + 4y = -1$
   C) $8x + 3y = -12$
   D) $x - 4y = -1$

3) through: $(-5, 5)$, perp. to $y = 3$

   A) $x = -5$ B) $y = 5$
   C) $y = -5$ D) $5y = -1$

4) through: $(2, -3)$, perp. to $y = 2x - 5$

   A) $3x - y = 3$ B) $x + 2y = -4$
   C) $x + y = 3$ D) $x + y = 2$

5) through: $(-1, 4)$, perp. to $y = \frac{1}{6}x + 5$

   A) $6x + y = -2$ B) $2x + y = 4$
   C) $2x + y = -4$ D) $6x - y = -4$

6) through: $(4, -4)$, perp. to $y = x + 5$

   A) $x + y = 0$ B) $4x + y = 1$
   C) $y = 1$ D) $5x + y = -1$

7) through: $(4, 5)$, perp. to $y = -\frac{2}{3}x - 1$

   A) $x + 2y = -1$ B) $2x + y = -1$
   C) $3x - 2y = 2$ D) $4x - 2y = 1$

8) through: $(3, 5)$, perp. to $y = -\frac{3}{4}x - 3$

   A) $x + 3y = 3$ B) $4x - 3y = -3$
   C) $x - 3y = 3$ D) $4x - 3y = 3$

9) through: $(-3, -1)$, perp. to $y = -x + 4$

   A) $x - 2y = -8$ B) $x + 4y = -2$
   C) $x - y = -2$ D) $x - 4y = 2$

10) through: $(5, 2)$, perp. to $y = 5$

   A) $x + 5y = 15$ B) $x - 5y = 5$
   C) $x = 5$ D) $x - 5y = 0$

11) through: $(-1, -2)$, perp. to $y = -\frac{1}{5}x + 5$

   A) $5x + y = 3$ B) $5x + y = -3$
   C) $5x - y = -3$ D) $5x - y = 3$

12) through: $(2, 2)$, perp. to $y = 2x + 5$

   A) $x + 2y = 6$ B) $x - 6y = 2$
   C) $x + 6y = 2$ D) $x + 6y = -2$

13) through: $(4, -3)$, perp. to $y = \frac{4}{7}x + 1$

   A) $7x + 4y = 16$ B) $x - y = -3$
   C) $x + y = 3$ D) $x + y = -3$

14) through: $(4, 1)$, perp. to $y = x + 4$

   A) $x + y = -5$ B) $x + 5y = 1$
   C) $x + y = 5$ D) $x - y = 5$

15) through: $(3, -5)$, perp. to $y = 3x - 1$

   A) $x + 3y = 6$
   B) $x + 6y = 3$
   C) $x + 3y = -12$
   D) $5x + 6y = 3$

16) through: $(-3, 0)$, perp. to $y = \dfrac{7}{5}x + 3$

   A) $5x + 7y = -15$
   B) $5x - 7y = 7$
   C) $5x + 7y = 15$
   D) $5x - 7y = -7$

17) through: $(2, -2)$, perp. to $y = -\dfrac{2}{3}x - 2$

   A) $x + y = -2$ B) $x + y = 5$
   C) $3x - 2y = 10$ D) $x + y = -4$

18) through: $(4, 2)$, perp. to $y = -\dfrac{8}{5}x - 1$

   A) $5x - 8y = -4$
   B) $5x - 8y = 4$
   C) $5x + 8y = 4$
   D) $4x - 5y = -8$

19) through: $(4, 0)$, perp. to $y = -\dfrac{1}{3}x - 2$

   A) $x + y = 2$ B) $3x - y = 12$
   C) $x + y = 4$ D) $x - 3y = 12$

20) through: $(3, -4)$, perp. to $y = x - 3$

   A) $x + y = 1$ B) $x + y = -1$
   C) $4x + y = -1$ D) $x - y = -4$

21) through: $(3, 2)$, perp. to $y = -\dfrac{1}{2}x - 4$

   A) $2x - y = 4$ B) $5x - y = 5$
   C) $5x + y = -2$ D) $5x + y = 2$

22) through: $(3, 4)$, perp. to $y = -\dfrac{8}{5}x - 3$

   A) $5x + 17y = 8$
   B) $17x + 3y = -34$
   C) $5x - 8y = -17$
   D) $5x + 17y = -8$

23) through: $(3, -2)$, perp. to $y = 2x - 4$

   A) $x + 3y = 1$ B) $3x - y = 1$
   C) $x + 2y = -1$ D) $2x + y = 1$

24) through: $(2, -5)$, perp. to $y = \dfrac{7}{6}x - 5$

   A) $28x - 4y = 7$
   B) $28x + 4y = -7$
   C) $6x + 7y = -23$
   D) $x + y = 5$

Answers to Assignment (ID: 6)

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

Geometry   Name_____

Assignment   Date_____ Period____

Write the standard form of the equation of the line described.

1) through: $(-4, 5)$, perp. to $y = 2x + 3$

   A) $6x - 2y = 1$ B) $x - 3y = 2$

   C) $x - 2y = 8$ D) $x + 2y = 6$

2) through: $(-5, 2)$, perp. to $y = 5x - 4$

   A) $x - 5y = 5$

   B) $x + 5y = 5$

   C) $5x - 5y = -1$

   D) $x + 5y = -5$

3) through: $(3, 5)$, perp. to $y = -\dfrac{3}{2}x - 4$

   A) $2x - 3y = 15$

   B) $-3y = -2$

   C) $-3y = 2$

   D) $2x - 3y = -9$

4) through: $(4, 0)$, perp. to $y = x + 2$

   A) $4x + y = -1$ B) $x + y = 4$

   C) $x + y = -4$ D) $4x - y = 1$

5) through: $(-2, 4)$, perp. to $y = -2x + 2$

   A) $x - 2y = -10$

   B) $2x - y = -5$

   C) $2x + y = 5$

   D) $2x - y = 5$

6) through: $(2, -4)$, perp. to $y = \dfrac{2}{9}x + 2$

   A) $9x + 2y = 10$

   B) $x + 3y = 15$

   C) $2x - 9y = 10$

   D) $2x - 9y = -45$

7) through: $(-5, 0)$, perp. to $y = x + 1$

   A) $5x - 4y = 1$

   B) $4x - 5y = 1$

   C) $x + y = -5$

   D) $5x - 4y = -1$

8) through: $(2, 1)$, perp. to $y = -\dfrac{1}{2}x - 4$

   A) $2x - y = 3$ B) $4x + y = -3$

   C) $3x + y = 3$ D) $4x - y = -3$

9) through: $(3, -5)$, perp. to $y = 3x + 1$

   A) $x + 3y = -12$

   B) $x - y = -1$

   C) $x - y = -5$

   D) $x - y = 1$

10) through: $(-4, -1)$, perp. to $y = 2x + 1$

   A) $x + 2y = -6$ B) $x - 2y = 6$

   C) $2x + 3y = -6$ D) $3x - 2y = 6$

11) through: $(5, -5)$, perp. to $y = \dfrac{5}{3}x + 1$

   A) $3x + 5y = 25$

   B) $3x + 5y = 15$

   C) $3x + 5y = -10$

   D) $3x - 5y = 25$

12) through: $(-2, -1)$, perp. to $x = 0$

   A) $4x - y = -1$ B) $y = -1$

   C) $-y = -4$ D) $4x - y = 1$

13) through: $(2, 2)$, perp. to $y = -\dfrac{1}{2}x + 1$

   A) $2x - y = 2$ B) $x + 2y = -2$

14) through: $(-4, 5)$, perp. to $y = \dfrac{4}{5}x + 1$

   A) $x = 2$ B) $5x + 4y = 0$

   C) $5x = 4$ D) $5x = -4$

15) through: $(3, 2)$, perp. to $y = -3x$

A) $3x + 3y = -5$

B) $3x + 6y = -4$

C) $3x + 3y = 5$

D) $x - 3y = -3$

16) through: $(-1, 0)$, perp. to $y = -\dfrac{1}{2}x - 3$

A) $5x - 3y = 1$ B) $x + 3y = -1$

C) $2x - y = -2$ D) $3x + 5y = -1$

17) through: $(-3, 4)$, perp. to $y = \dfrac{3}{2}x$

A) $x + 3y = -6$

B) $4x - 6y = -3$

C) $2x - 3y = -6$

D) $2x + 3y = 6$

18) through: $(-2, 5)$, perp. to $x = 0$

A) $2x + y = 4$ B) $y = 5$

C) $3x - y = 5$ D) $3x - y = 4$

19) through: $(-1, -2)$, perp. to $y = 5$

A) $x = 0$ B) $x = -1$

C) $-y = 0$ D) $3x - y = 0$

20) through: $(2, -3)$, perp. to $y = \dfrac{2}{7}x$

A) $x + y = -5$

B) $7x + 2y = 8$

C) $7x - 2y = -10$

D) $3x + 5y = 1$

21) through: $(-4, -1)$, perp. to $y = -\dfrac{2}{3}x$

A) $2x - y = 10$

B) $x + 2y = 10$

C) $x - 2y = 10$

D) $3x - 2y = -10$

22) through: $(-1, 3)$, perp. to $y = -\dfrac{3}{8}x - 4$

A) $8x - 3y = -17$ B) $8x + 3y = 9$

C) $8x - 3y = 9$ D) $x + y = 5$

23) through: $(-1, -3)$, perp. to $y = -x - 4$

A) $x + 2y = 1$ B) $x - y = -2$

C) $x + y = 2$ D) $x - y = 2$

24) through: $(-1, 0)$, perp. to $y = \dfrac{3}{5}x - 3$

A) $3x + 2y = -12$

B) $5x + 3y = -5$

C) $3x + 2y = 12$

D) $5x - 3y = -5$

Answers to Assignment (ID: 7)

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

Geometry   Name_____

Assignment

Date_____ Period_____

Write the standard form of the equation of the line described.

1) through: $(-2, 2)$, perp. to $y = x - 5$

   A) $x + y = 0$ B) $x - y = 0$

   C) $-y = -1$ D) $y = 1$

2) through: $(-1, 5)$, perp. to $y = -\dfrac{1}{2}x - 4$

   A) $5x + y = -7$ B) $x + 5y = 7$

   C) $2x - y = -7$ D) $x + 5y = -7$

3) through: $(-1, -4)$, perp. to $y = -2x + 5$

   A) $x - 2y = 8$ B) $x + 2y = -6$

   C) $x - 2y = 7$ D) $x - 2y = -8$

4) through: $(-1, -1)$, perp. to $y = -2x + 5$

   A) $2x + y = 2$ B) $3x - y = 2$

   C) $2x + y = 3$ D) $x - 2y = 1$

5) through: $(-2, 1)$, perp. to $y = -x + 4$

   A) $x - y = -3$ B) $x - y = 1$

   C) $x - y = -1$ D) $x + y = -1$

6) through: $(-1, 3)$, perp. to $y = \dfrac{2}{3}x + 4$

   A) $2x - 2y = -3$ B) $3x + 2y = 2$

   C) $3x + 2y = 3$ D) $x - 6y = 2$

7) through: $(-2, -3)$, perp. to $y = -\dfrac{6}{5}x + 3$

   A) $5x + 6y = -8$ B) $3x + 2y = 6$

   C) $3x - 2y = 6$ D) $5x - 6y = 8$

8) through: $(5, 0)$, perp. to $y = \dfrac{5}{2}x - 2$

   A) $2x - 6y = 5$

   B) $2x + 6y = -5$

   C) $2x + 5y = 10$

   D) $5x + 2y = -25$

9) through: $(3, -4)$, perp. to $y = \dfrac{3}{7}x - 3$

   A) $7x + 3y = 9$

   B) $7x + 3y = -9$

   C) $x + y = 2$

   D) $x - y = -3$

10) through: $(-1, 4)$, perp. to $y = x - 3$

   A) $-y = 2$ B) $x + y = 3$

   C) $2x = 1$ D) $-y = 1$

11) through: $(-4, -1)$, perp. to $y = -\dfrac{4}{5}x - 3$

   A) $3x - 4y = -12$

   B) $3x + 4y = 12$

   C) $3x - 4y = 12$

   D) $5x - 4y = -16$

12) through: $(3, -5)$, perp. to $y = \dfrac{1}{3}x - 2$

   A) $5x - y = 4$ B) $3x + y = 4$

   C) $x - 4y = 1$ D) $4x + y = -5$

13) through: $(-3, -2)$, perp. to $y = x - 3$

   A) $4x + y = -5$ B) $x + y = -5$

   C) $4x - y = 5$ D) $x - y = 5$

14) through: $(1, 2)$, perp. to $y = -\dfrac{1}{7}x - 3$

  A) $5x + y = -5$ B) $5x + y = 5$

  C) $3x + y = 5$ D) $7x - y = 5$

15) through: $(3, 1)$, perp. to $y = -\dfrac{3}{4}x - 3$

  A) $4x - 3y = 9$

  B) $5x - 3y = -12$

  C) $4x - 3y = -12$

  D) $4x + 3y = 15$

16) through: $(-1, -2)$, perp. to $y = x - 4$

  A) $x + y = 3$ B) $x + y = -3$

  C) $x - y = -3$ D) $x - y = 3$

17) through: $(5, 5)$, perp. to $y = -\dfrac{5}{9}x - 3$

  A) $9x + 5y = 20$

  B) $2x - 5y = 0$

  C) $9x - 5y = 20$

  D) $9x + 5y = -20$

18) through: $(-4, 4)$, perp. to $y = \dfrac{2}{3}x - 4$

  A) $2x + 3y = 0$ B) $3x + 2y = -4$

  C) $x - y = 0$ D) $5x + 3y = 0$

19) through: $(-3, 0)$, perp. to $x = 0$

  A) $4x + y = 0$ B) $y = 0$

  C) $x + y = 0$ D) $x - y = 0$

20) through: $(1, -3)$, perp. to $y = \dfrac{1}{3}x - 4$

  A) $-y = -3$ B) $x + 5y = 3$

  C) $y = -3$ D) $3x + y = 0$

21) through: $(4, 0)$, perp. to $y = -4x - 4$

  A) $x - 4y = 4$ B) $8x + y = 4$

  C) $2x + y = 4$ D) $2x - y = -4$

22) through: $(-5, -1)$, perp. to $y = -\dfrac{5}{2}x - 4$

  A) $2x + 5y = 5$ B) $2x - 5y = -5$

  C) $5x - 2y = -5$ D) $2x - 5y = 5$

23) through: $(-4, -4)$, perp. to $y = -2$

  A) $x = 4$ B) $x + 4y = 0$

  C) $x - 4y = 0$ D) $x = -4$

24) through: $(-1, 3)$, perp. to $y = x - 5$

  A) $x + y = 4$ B) $x - y = 4$

  C) $x - y = -4$ D) $x + y = 2$

Answers to Assignment (ID: 8)

1) A   2) C   3) C   4) D

5) A   6) C   7) D   8) C

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

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

17) C   18) B   19) B   20) D

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

ID: 9

Geometry   Name_____

Assignment   Date_____ Period____

Write the standard form of the equation of the line described.

1) through: $(-3, -1)$, perp. to $y = -\frac{3}{4}x - 5$

  A) $4x + 3y = 9$
  B) $4x - 3y = -9$
  C) $3x - 4y = -12$

2) through: $(4, -5)$, perp. to $y = \frac{4}{9}x - 5$

  A) $x + y = 1$ B) $x - y = -1$
  C) $9x + 4y = 16$ D) $x + y = 0$

3) through: $(-1, 5)$, perp. to $x = 0$

  A) $y = 5$ B) $5x = -1$
  C) $2x = -1$ D) $3x = -1$

4) through: $(1, 2)$, perp. to $y = \frac{1}{3}x - 5$

  A) $5x - y = -1$ B) $3x + y = 1$
  C) $3x + y = 5$ D) $4x - y = -1$

5) through: $(1, -5)$, perp. to $y = 5$

  A) $-5y = -1$ B) $x = 1$
  C) $y = 1$ D) $5y = -1$

6) through: $(2, 4)$, perp. to $y = \frac{1}{3}x + 4$

  A) $3x + y = 4$ B) $5x - 5y = -4$
  C) $x + 5y = 4$ D) $3x + y = 10$

7) through: $(-5, -1)$, perp. to $y = x + 4$

  A) $x + y = -6$ B) $6x - 2y = 1$
  C) $2x + 6y = 1$ D) $5x + 2y = -2$

8) through: $(5, 4)$, perp. to $y = -\frac{5}{6}x + 3$

  A) $5x - 6y = -5$
  B) $5x + 6y = -5$
  C) $6x - 5y = 10$
  D) $30x - 6y = -5$

9) through: $(-2, 4)$, perp. to $y = \frac{6}{7}x - 4$

  A) $10x - 7y = 6$
  B) $7x + 10y = 6$
  C) $7x + 6y = 10$
  D) $10x - 7y = -6$

10) through: $(5, 1)$, perp. to $y = -3x + 2$

  A) $y = 1$ B) $y = -1$
  C) $x - 3y = 2$ D) $x - y = 0$

11) through: $(3, 4)$, perp. to $y = 2$

  A) $2x - y = 0$ B) $x - 3y = 0$
  C) $3x + y = 0$ D) $x = 3$

12) through: $(4, -5)$, perp. to $y = \frac{4}{5}x + 1$

  A) $2x - y = 0$ B) $5x + 4y = 0$
  C) $x - 2y = 0$ D) $2x + y = 0$

13) through: $(2, 0)$, perp. to $y = x - 4$

  A) $2x - y = 2$ B) $x - 2y = -2$
  C) $x + y = 2$ D) $2x - y = -2$

14) through: $(5, 3)$, perp. to $y = -5x + 1$

  A) $x - 5y = -10$
  B) $x - 5y = 25$
  C) $x + 5y = 25$
  D) $x - 5y = -25$

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15) through: $(-3, -1)$, perp. to $y = -x + 4$

  A) $x - y = -2$ B) $4x + y = 2$

  C) $4x - y = -2$ D) $5x + y = 2$

16) through: $(4, -5)$, perp. to $y = \dfrac{1}{2}x + 4$

  A) $3x + y = -3$ B) $3x + y = 3$

  C) $2x + y = 3$ D) $2x - y = -3$

17) through: $(2, 1)$, perp. to $y = x + 4$

  A) $x + y = 3$ B) $x - 5y = 3$

  C) $x + 5y = 3$ D) $x + 5y = -3$

18) through: $(-1, -2)$, perp. to $y = -\dfrac{1}{7}x + 4$

  A) $7x - y = -5$ B) $7x + y = -4$

  C) $x - 7y = 4$ D) $4x - 7y = -1$

19) through: $(-2, 3)$, perp. to $y = -x + 5$

  A) $4x + y = -1$ B) $x - y = -5$

  C) $4x + y = 1$ D) $4x - y = 5$

20) through: $(4, 0)$, perp. to $y = -\dfrac{4}{5}x + 3$

  A) $20x - 4y = -5$

  B) $20x + 4y = -5$

  C) $5x + 4y = 20$

  D) $5x - 4y = 20$

21) through: $(-3, 4)$, perp. to $y = \dfrac{1}{3}x + 1$

  A) $3x + y = 5$ B) $x - y = -1$

  C) $3x - y = 5$ D) $3x + y = -5$

22) through: $(-3, 4)$, perp. to $y = \dfrac{3}{8}x + 3$

  A) $2x + 3y = 12$

  B) $4x + 3y = -12$

  C) $2x - 3y = 12$

  D) $8x + 3y = -12$

23) through: $(2, -5)$, perp. to $y = \dfrac{2}{3}x + 3$

  A) $3x + 2y = -4$

  B) $x + 2y = 4$

  C) $2x + 4y = 1$

  D) $2x + 4y = -1$

24) through: $(5, 0)$, perp. to $y = -\dfrac{5}{4}x + 3$

  A) $3x - 4y = -20$

  B) $5x + 4y = -20$

  C) $x + y = 5$

  D) $4x - 5y = 20$

Answers to Assignment (ID: 9)

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

Geometry   Name_____

Assignment   Date_____ Period____

Write the standard form of the equation of the line described.

1) through: $(-1, 3)$, perp. to $y = \dfrac{1}{4}x + 3$

   A) $x - 4y = -1$ B) $4x + y = -1$

   C) $4x - y = -1$ D) $4x + y = 1$

2) through: $(-5, 2)$, perp. to $y = \dfrac{5}{3}x - 5$

   A) $5x - 3y = -5$

   B) $5x + 3y = 5$

   C) $3x + 5y = -5$

   D) $3x - 5y = 5$

3) through: $(4, -5)$, perp. to $y = \dfrac{4}{5}x + 2$

   A) $4x + 5y = -8$

   B) $5x + 4y = -8$

   C) $5x + 4y = 0$

   D) $5x - 4y = 8$

4) through: $(-5, 2)$, perp. to $y = \dfrac{5}{2}x + 3$

   A) $2x - 5y = 0$ B) $2x + 5y = 0$

   C) $2x + 5y = 5$ D) $x + y = 1$

5) through: $(-3, -2)$, perp. to $y = -x + 2$

   A) $x - y = -3$ B) $x + y = 1$

   C) $x - y = -1$ D) $x + y = -1$

6) through: $(2, 4)$, perp. to $y = 0$

   A) $x = 0$ B) $-3y = 0$

   C) $x = 2$ D) $y = 0$

7) through: $(-1, -3)$, perp. to $y = -\dfrac{1}{6}x + 2$

   A) $5x + y = -5$ B) $4x - y = -3$

   C) $6x - y = -3$ D) $x + y = -3$

8) through: $(3, 1)$, perp. to $y = x - 4$

   A) $x + y = 4$ B) $x - y = -4$

   C) $x + y = -3$ D) $x - y = -3$

9) through: $(5, 5)$, perp. to $y = -\dfrac{5}{3}x + 2$

   A) $5x + y = 1$

   B) $3x - 5y = -10$

   C) $x - y = 1$

   D) $x - y = -2$

10) through: $(4, 1)$, perp. to $y = \dfrac{4}{3}x + 1$

   A) $3x - 4y = 20$

   B) $3x + 4y = 16$

   C) $3x + 4y = -20$

   D) $3x - 4y = -20$

11) through: $(2, 1)$, perp. to $y = \dfrac{1}{2}x + 5$

   A) $x + 2y = 0$ B) $x + 2y = 5$

   C) $2x + y = -5$ D) $2x + y = 5$

12) through: $(1, -2)$, perp. to $y = x + 1$

   A) $x + 5y = -1$

   B) $x + y = -1$

   C) $x + 5y = 1$

   D) $x - 5y = -1$

13) through: $(2, 1)$, perp. to $y = -\dfrac{2}{5}x - 5$

   A) $5x + 2y = 10$

   B) $5x - 2y = 8$

   C) $8x - 2y = -5$

   D) $5x + 2y = -5$

14) through: $(1, -3)$, perp. to $x = 0$

   A) $x - y = 0$ B) $y = -3$

   C) $x + y = 1$ D) $x + y = 0$

15) through: $(1, 0)$, perp. to $y = \dfrac{1}{3}x + 1$

   A) $3x + y = 3$ B) $3x + y = 2$

   C) $3x - y = 2$ D) $4x + y = -2$

16) through: $(1, -4)$, perp. to $y = \dfrac{3}{2}x$

   A) $2x + 3y = -10$

   B) $2x - 3y = -9$

   C) $2x + 3y = 10$

   D) $2x + 3y = -6$

17) through: $(0, 4)$, perp. to $y = -x - 1$

   A) $x - y = -4$ B) $5x + y = 4$

   C) $3x - y = 4$ D) $4x - y = 1$

18) through: $(-4, -1)$, perp. to $y = -6x$

   A) $x - 6y = -2$ B) $6x + y = 2$

   C) $2x - y = -6$ D) $x - 6y = 2$

19) through: $(0, -2)$, perp. to $y = \dfrac{3}{2}x - 2$

   A) $5x + 3y = 6$ B) $2x + 3y = -6$

   C) $x + 2y = 1$ D) $3x - 2y = -4$

20) through: $(0, 5)$, perp. to $y = \dfrac{5}{4}x - 2$

   A) $4x + 5y = -25$

   B) $20x - 5y = -4$

   C) $4x + 5y = 25$

   D) $4x - 5y = -25$

21) through: $(-1, -3)$, perp. to $y = 2$

   A) $y = 0$ B) $x = 4$

   C) $x = 0$ D) $x = -1$

22) through: $(-3, 0)$, perp. to $y = -\dfrac{3}{2}x + 1$

   A) $2x - 3y = 6$ B) $2x - 6y = -3$

   C) $2x - 6y = 3$ D) $2x - 3y = -6$

23) through: $(1, -4)$, perp. to $y = \dfrac{1}{9}x - 1$

   A) $9x + y = 5$ B) $5x - y = -1$

   C) $9x - y = 3$ D) $3x + y = -1$

24) through: $(-2, 4)$, perp. to $y = -2x - 1$

   A) $2x - y = -1$ B) $2x + y = 6$

   C) $x - 2y = -10$ D) $2x - y = -3$

Answers to Assignment (ID: 10)

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