Algebra 2 (Mat-08)

14-09-26-T8A

Write the standard form of the equation of each line.

1) $y = \frac{1}{4}x + 4$

2) $y = -\frac{5}{2}x + 6$

3) $y + 2 = 7(x + 1)$

4) $y + 5 = 0$

Write the standard form of the equation of the line through the given points.

5) through: $(-1, 1)$ and $(-2, -4)$

6) through: $(2, -4)$ and $(-1, 4)$

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

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

8) through: $(4, 4)$, parallel to $y = -7x - 3$

9) through: $(0, 3)$, perp. to $y = \frac{3}{4}x$

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

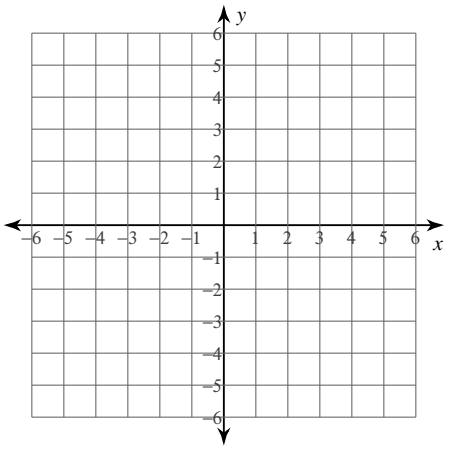
Write the slope-intercept form of the equation of the line through the given points.

11) through: $(0, 0)$ and $(0, -2)$

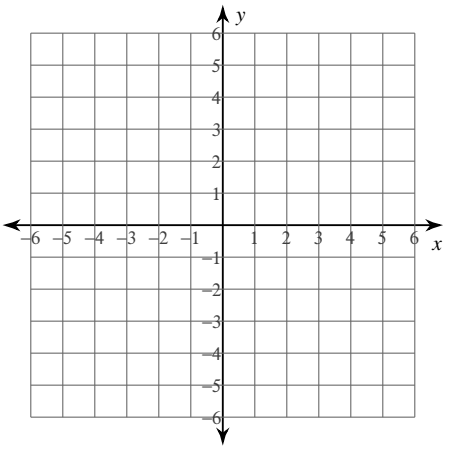
12) through: $(3, 1)$ and $(1, -5)$

Sketch the graph of each line.

13) $2x + 5y = 0$



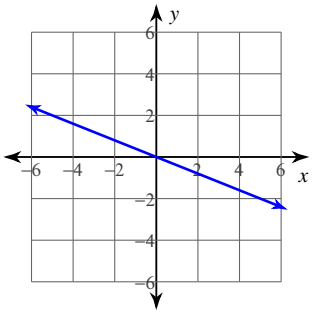
14) $y = -3$



Answers to 14-09-26-T8A

1) $x - 4y = -16$
2) $5x + 2y = 12$
3) $7x - y = -5$
4) $y = -5$
5) $5x - y = -6$
6) $8x + 3y = 4$
7) $8x + 3y = -1$
8) $7x + y = 32$
9) $4x + 3y = 9$
10) $x = -3$
11) $x = 0$
12) $y = 3x - 8$

13)



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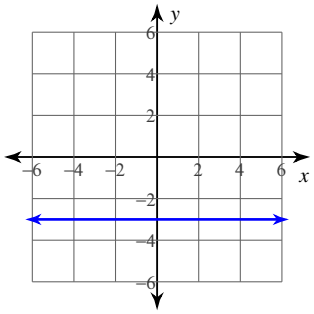


Algebra 2 (Mat-08)

14-09-26-T8B

Write the standard form of the equation of each line.

1) $x = 6$

2) $y = 5x + 6$

3) $y + 1 = 5(x + 1)$

4) $y - 5 = 0$

Write the standard form of the equation of the line through the given points.

5) through: $(0, 5)$ and $(4, 1)$

6) through: $(1, -2)$ and $(0, -5)$

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

7) through: $(-5, 0)$, parallel to $y = -\frac{3}{5}x - 4$

8) through: $(-1, 5)$, parallel to $y = -10x - 3$

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

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

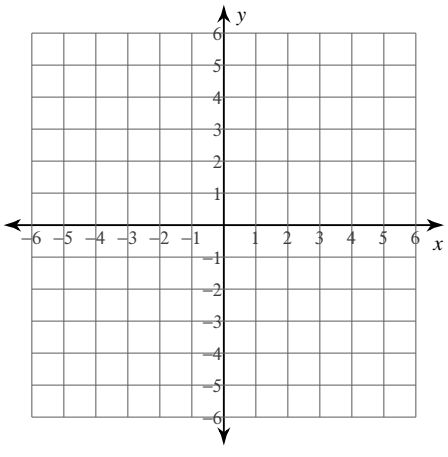
Write the slope-intercept form of the equation of the line through the given points.

11) through: $(-1, -1)$ and $(-3, -3)$

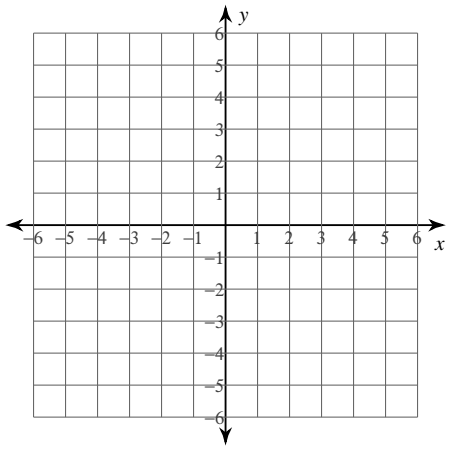
12) through: $(-1, -4)$ and $(-4, -1)$

Sketch the graph of each line.

13) $x - 3y = 3$



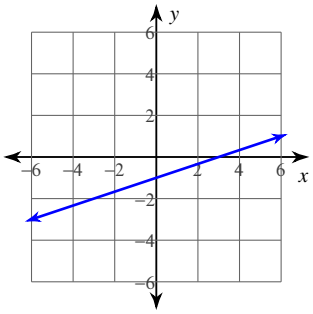
14) $x - 2y = -2$



Answers to 14-09-26-T8B

1) $x = 6$
2) $5x - y = -6$
3) $5x - y = -4$
4) $y = 5$
5) $x + y = 5$
6) $3x - y = 5$
7) $3x + 5y = -15$
8) $10x + y = -5$
9) $x - 2y = 4$
10) $x - 4y = 12$
11) $y = x$
12) $y = -x - 5$

13)



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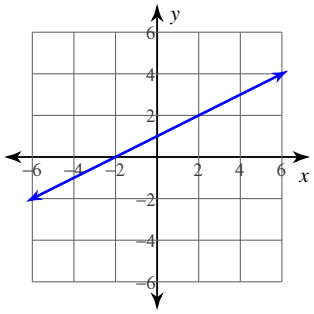


Algebra 2 (Mat-08)

14-09-26-T8C

Write the standard form of the equation of each line.

1) $y = \frac{5}{2}x - 5$

2) $y = -\frac{1}{5}x + 1$

3) $0 = x - 4$

4) $y - 5 = -\frac{2}{3}(x + 3)$

Write the standard form of the equation of the line through the given points.

5) through: $(-5, 1)$ and $(4, -2)$

6) through: $(2, -4)$ and $(0, 4)$

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

7) through: $(5, 0)$, parallel to $y = -\frac{1}{3}x - 5$

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

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

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

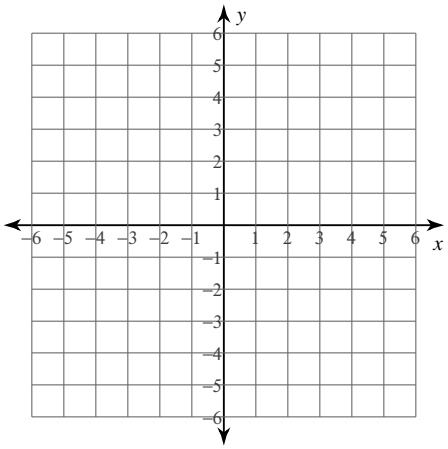
Write the slope-intercept form of the equation of the line through the given points.

11) through: $(5, -5)$ and $(0, -3)$

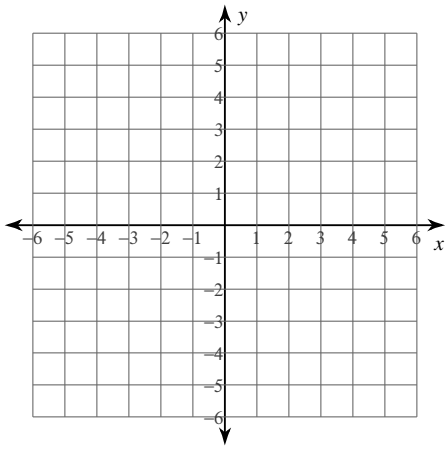
12) through: $(-2, -1)$ and $(0, -3)$

Sketch the graph of each line.

13) $2x + y = 4$



14) $3x - y = 4$



Answers to 14-09-26-T8C

1) $5x - 2y = 10$

2) $x + 5y = 5$

3) $x = 4$

4) $2x + 3y = 9$

5) $x + 3y = -2$

6) $4x + y = 4$

7) $x + 3y = 5$

8) $3x - 4y = -4$

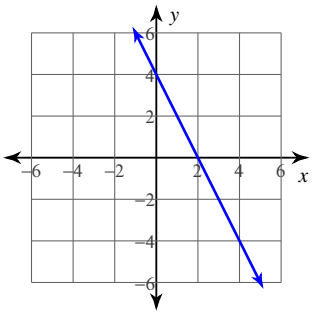
9) $5x - y = -4$

10) $x - 4y = 20$

11) $y = -\frac{2}{5}x - 3$

12) $y = -x - 3$

13)



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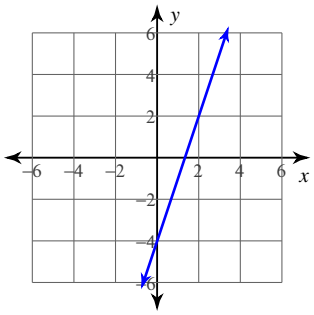


14-09-26-T8D

Write the standard form of the equation of each line.

1) $y = -\frac{2}{3}x - 1$

2) $y = \frac{1}{6}x - 3$

3) $y = -2(x - 2)$

4) $y + 1 = -\frac{5}{4}(x - 1)$

Write the standard form of the equation of the line through the given points.

5) through: $(1, -4)$ and $(3, 5)$

6) through: $(-1, 5)$ and $(1, 4)$

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

7) through: $(1, -2)$, parallel to $y = -x - 3$

8) through: $(1, 1)$, parallel to $y = \frac{6}{5}x - 2$

9) through: $(1, 2)$, perp. to $y = -\frac{6}{5}x - 4$

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

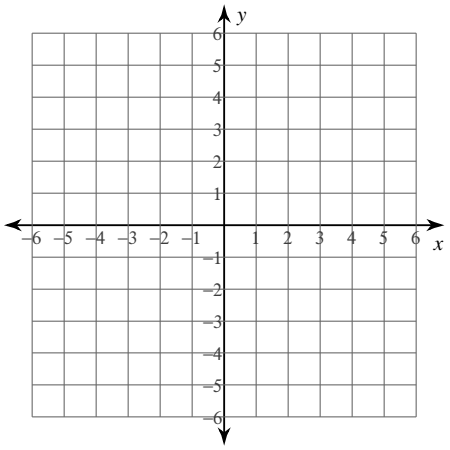
Write the slope-intercept form of the equation of the line through the given points.

11) through: $(-2, -1)$ and $(0, -4)$

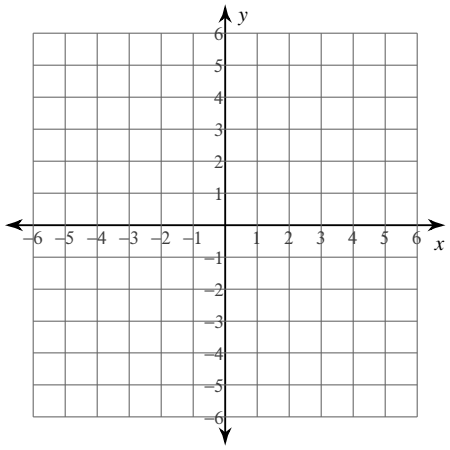
12) through: $(0, -1)$ and $(2, -2)$

Sketch the graph of each line.

13) $x = 4$



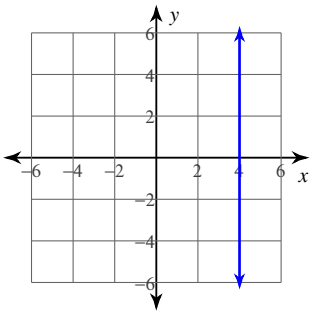
14) $x = 1$



Answers to 14-09-26-T8D

1) $2x + 3y = -3$
2) $x - 6y = 18$
3) $2x + y = 4$
4) $5x + 4y = 1$
5) $9x - 2y = 17$
6) $x + 2y = 9$
7) $x + y = -1$
8) $6x - 5y = 1$
9) $5x - 6y = -7$
10) $2x + 3y = -13$
11) $y = -\frac{3}{2}x - 4$
12) $y = -\frac{1}{2}x - 1$

13)



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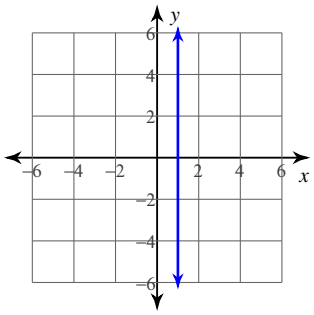


14-09-26-T8E

Write the standard form of the equation of each line.

1) $y = -4$

2) $y = -\frac{3}{4}x + 2$

3) $y = -(x - 2)$

4) $y + 3 = \frac{7}{5}(x + 5)$

Write the standard form of the equation of the line through the given points.

5) through: $(4, 0)$ and $(0, 5)$

6) through: $(3, -1)$ and $(0, 3)$

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

7) through: $(-2, 2)$, parallel to $y = -\frac{7}{2}x - 2$

8) through: $(2, -5)$, parallel to $y = -5x - 1$

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

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

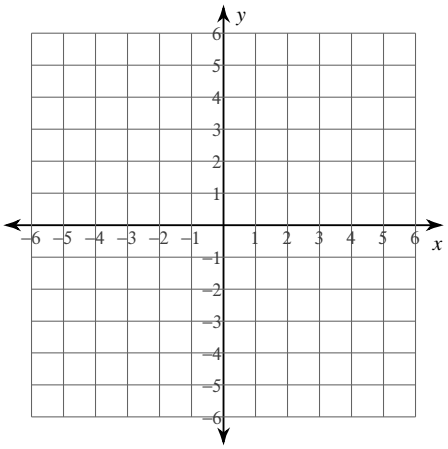
Write the slope-intercept form of the equation of the line through the given points.

11) through: $(0, -3)$ and $(-1, -3)$

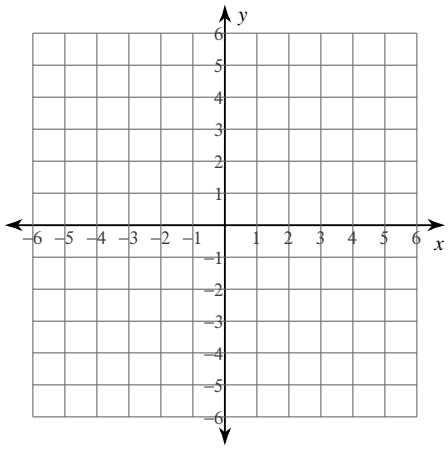
12) through: $(-2, -2)$ and $(5, 0)$

Sketch the graph of each line.

13) $3x + 2y = -2$



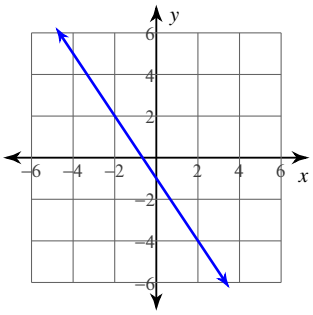
14) $x - 5y = 10$



Answers to 14-09-26-T8E

1) $y = -4$
2) $3x + 4y = 8$
3) $x + y = 2$
4) $7x - 5y = -20$
5) $5x + 4y = 20$
6) $4x + 3y = 9$
7) $7x + 2y = -10$
8) $5x + y = 5$
9) $3x - y = 4$
10) $x = -1$
11) $y = -3$
12) $y = \frac{2}{7}x - \frac{10}{7}$

13)



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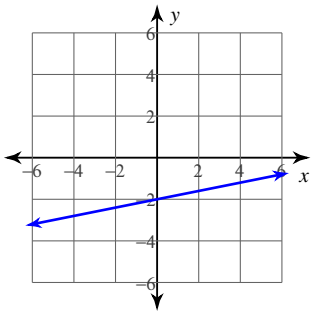


14-09-26-T8F

Write the standard form of the equation of each line.

1) $y = \frac{8}{3}x - 5$

2) $y = -\frac{3}{2}x - 2$

3) $y + 2 = 2(x + 2)$

4) $y = -\frac{1}{3}(x - 3)$

Write the standard form of the equation of the line through the given points.

5) through: $(3, 3)$ and $(-3, -3)$

6) through: $(-1, 4)$ and $(-3, 5)$

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

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

8) through: $(-3, 2)$, parallel to $y = -x - 4$

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

10) through: $(-4, 3)$, perp. to $y = \frac{9}{7}x - 5$

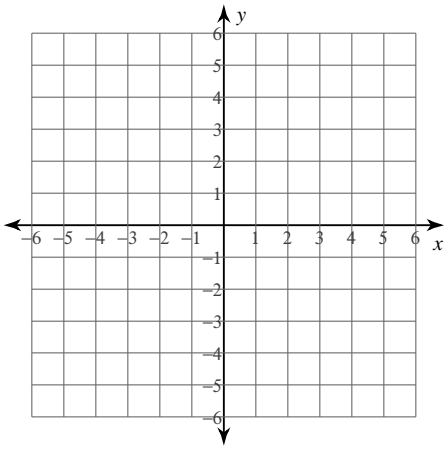
Write the slope-intercept form of the equation of the line through the given points.

11) through: $(-3, -3)$ and $(-4, -2)$

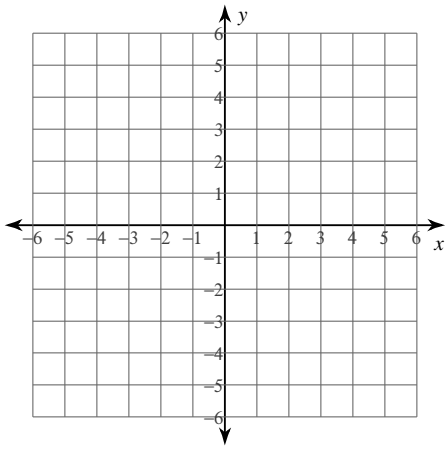
12) through: $(1, -4)$ and $(-4, 0)$

Sketch the graph of each line.

13) $4x + y = 2$



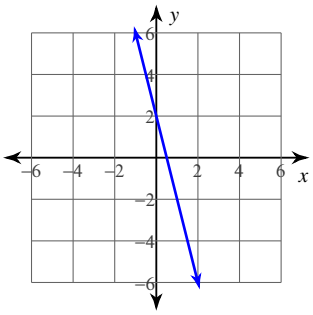
14) $x + y = 1$



Answers to 14-09-26-T8F

1) $8x - 3y = 15$
2) $3x + 2y = -4$
3) $2x - y = -2$
4) $x + 3y = 3$
5) $x - y = 0$
6) $x + 2y = 7$
7) $7x - 5y = -11$
8) $x + y = -1$
9) $x + 2y = -12$
10) $7x + 9y = -1$
11) $y = -x - 6$
12) $y = -\frac{4}{5}x - \frac{16}{5}$

13)



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