Algebra 2 (Mat-08)

15-11-03-T8

Write the standard form of the equation of each line.

1) $y = -\frac{1}{4}x - 6$

2) $y = \frac{9}{5}x - 6$

3) $y - 4 = -\frac{7}{2}(x + 5)$

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

4) through: $(-3, 2)$ and $(1, 3)$

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

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

6) through: $(3, -4)$, parallel to $y = -\frac{7}{3}x - 1$

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

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

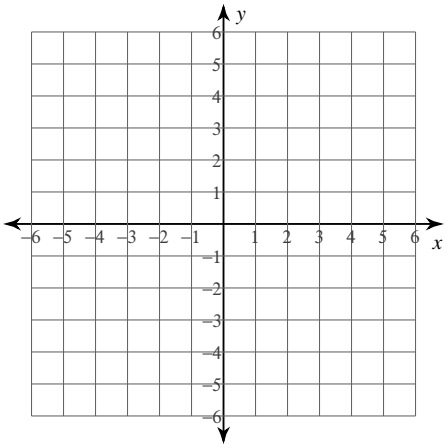
Write the slope-intercept form of the equation of the line through the given points.

9) through: $(2, -2)$ and $(2, -5)$

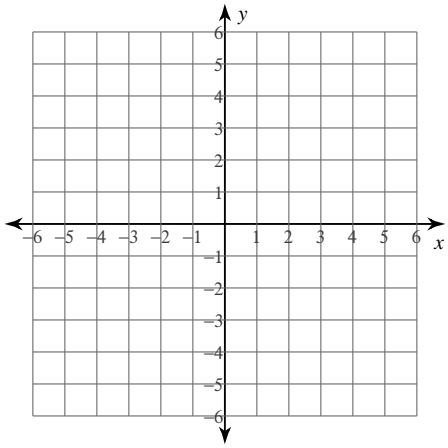
10) through: $(-5, -5)$ and $(-2, 5)$

Sketch the graph of each line.

11) $3x - y = -2$



12) $7x + 5y = 20$



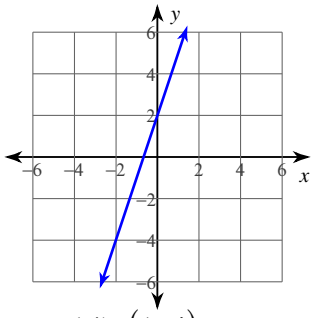
Solve each system by elimination.

13) $10x - 6y = -16$
$2x - 3y = -5$

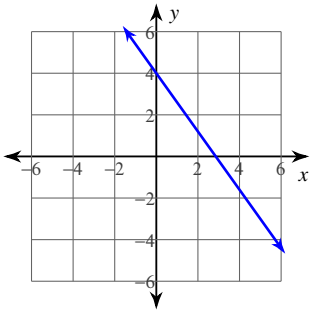
14) $6x - 4y = -10$
$12x - 2y = 4$

Answers to 15-11-03-T8

1) $x + 4y = -24$
2) $9x - 5y = 30$
3) $7x + 2y = -27$
4) $x - 4y = -11$
5) $3x - 5y = -10$
6) $7x + 3y = 9$
7) $5x - 3y = -12$
8) $x + y = 4$
9) $x = 2$
10) $y = \frac{10}{3}x + \frac{35}{3}$
11)



12)



13) $(-1, 1)$
14) $(1, 4)$