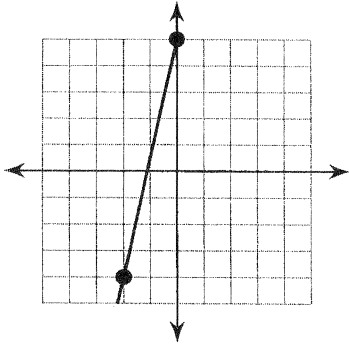


Equations of Lines Review

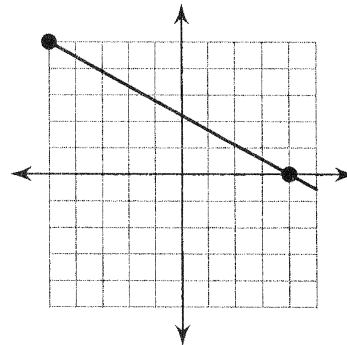
Find the slope of each line.

1)



- A) $-\frac{2}{9}$
- B) $\frac{2}{9}$
- C) $-\frac{1}{2}$
- D) $\frac{9}{2}$
- E) $-\frac{9}{2}$

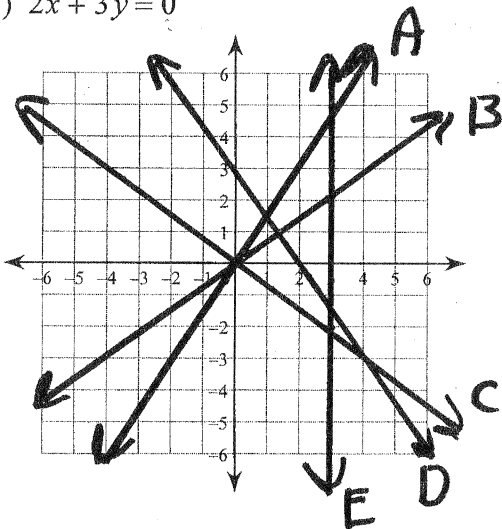
2)



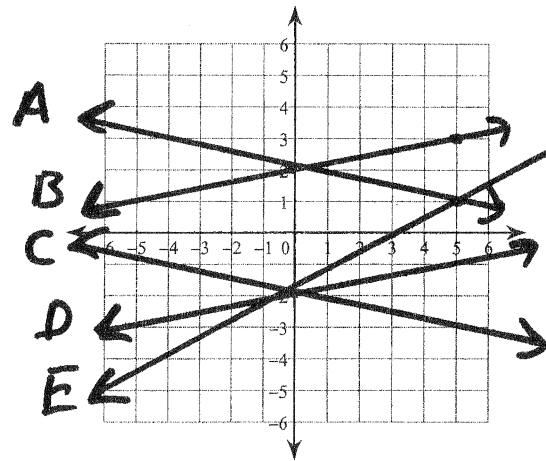
- A) $\frac{5}{9}$
- B) $-\frac{5}{9}$
- C) $-\frac{9}{5}$
- D) $-\frac{1}{2}$
- E) $\frac{9}{5}$

Sketch the graph of each line.

3) $2x + 3y = 0$



4) $x - 5y = 10$



Write the slope-intercept form of the equation of each line given the slope and y-intercept.

5) Slope = 5, y-intercept = -1

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

6) Slope = 1, y-intercept = 3

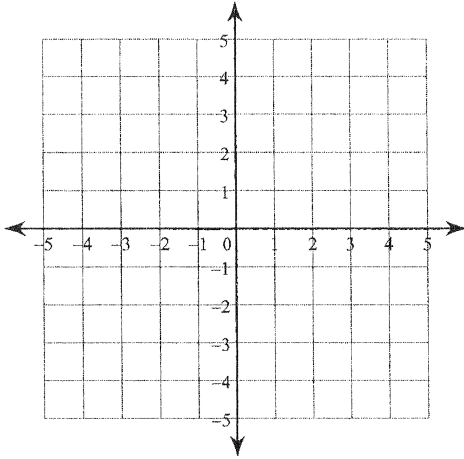
- A) $y = x + 3$
- B) $y = -3x + 3$
- C) $y = 3x + 1$
- D) $y = 3x + 3$
- E) $y = -x + 3$

Graphing Lines Std & Slope Intercept Day 1

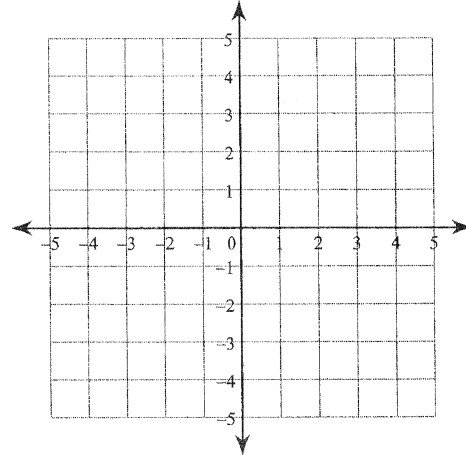
Date _____ Period _____

Convert each equation to slope intercept form and sketch a graph of each line.

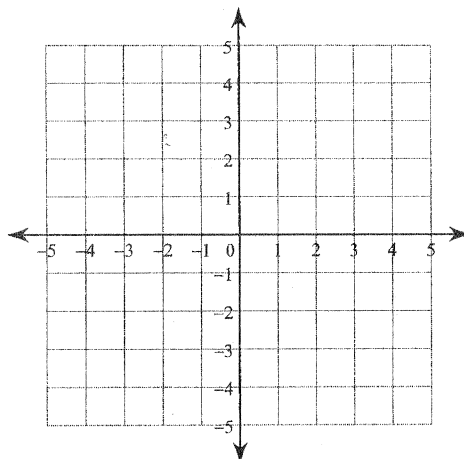
1) $x + 4y = -8$
 $7x + 4y = 16$



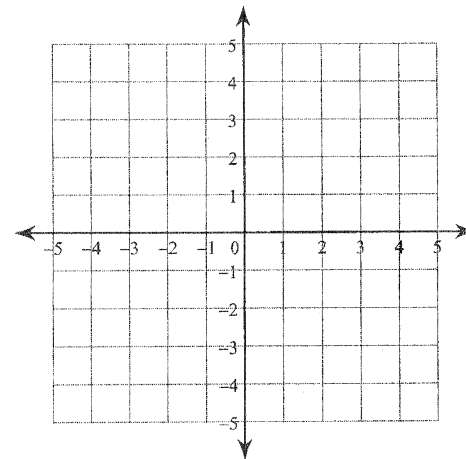
2) $x + y = 3$
 $6x + y = -2$



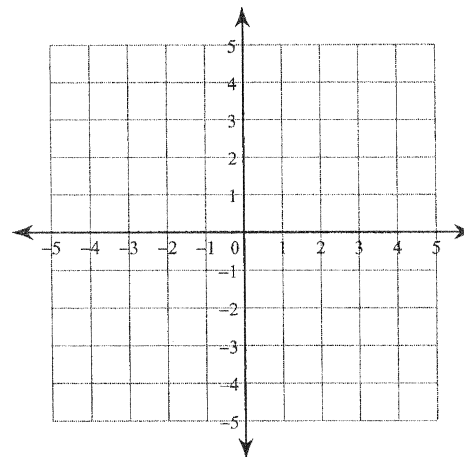
3) $3x + y = 4$
 $x + 2y = -2$



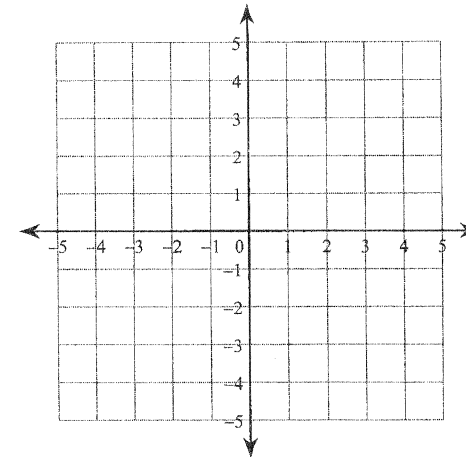
4) $3x - 2y = -8$
 $3x + 2y = -4$



5) $3x + 4y = -16$
 $3x - 4y = -8$



6) $7x + y = -4$
 $7x + y = 4$



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

7) through: $(2, -2)$, slope = -3

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

8) through: $(-1, 4)$, slope = 1

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

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

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

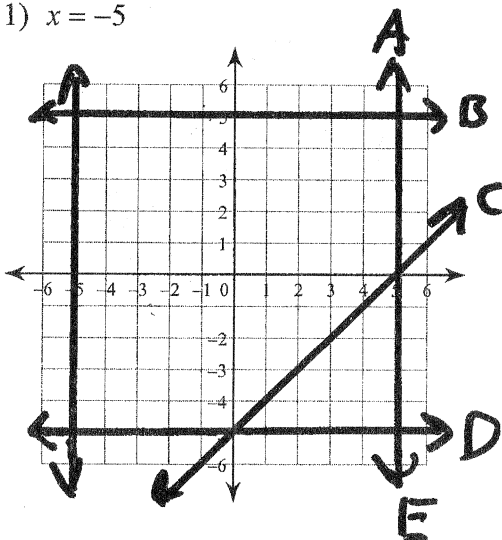
- A) $y = -5x - 4$
 B) $y = 5x - 4$
 C) $y = 5x - 3$
 D) $y = -4x + 5$
 E) $y = -3x + 5$

10) through: $(0, 3)$ and $(-3, -4)$

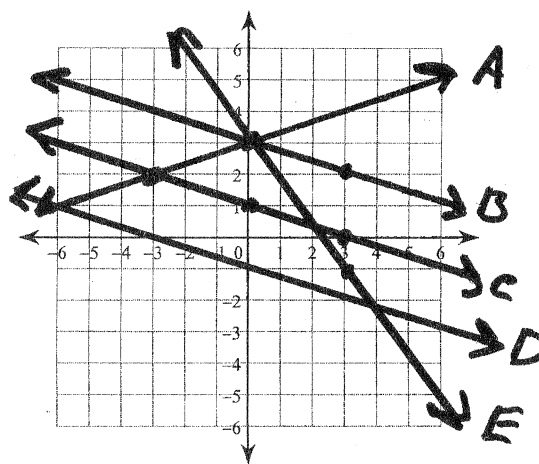
- A) $y = -4x + 3$ B) $y = -5x + 3$
 C) $y = 3x + 1$ D) $y = \frac{7}{3}x + 3$
 E) $y = x + 3$

Sketch the graph of each line.

11) $x = -5$



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



Write the slope-intercept form of the equation of the line described.

13) through: $(-5, -1)$, parallel to $y = -\frac{2}{5}x + 4$

- A) $y = -\frac{2}{5}x - 3$ B) $y = -3x + \frac{1}{5}$
 C) $y = \frac{1}{5}x - 3$ D) $y = -\frac{1}{5}x - 3$
 E) $y = 3x + \frac{1}{5}$

14) through: $(-3, -1)$, parallel to $y = -\frac{2}{3}x - 1$

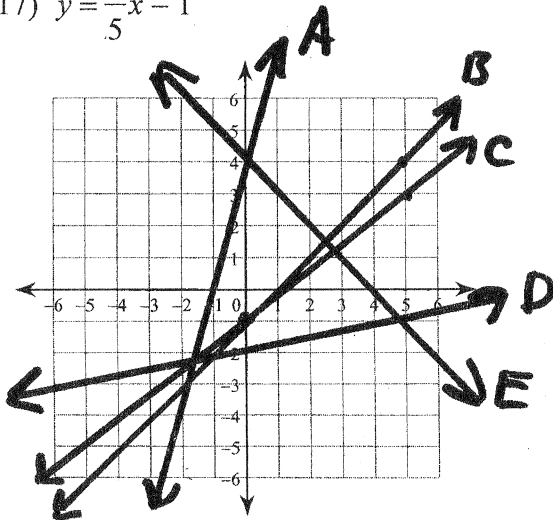
- A) $y = -\frac{2}{3}x - 3$ B) $y = -3x - \frac{2}{3}$
 C) $y = -\frac{2}{3}x - \frac{2}{3}$ D) $y = \frac{2}{3}x - \frac{2}{3}$
 E) $y = -\frac{2}{3}x + \frac{2}{3}$

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

- A) $y = \frac{5}{2}x - 2$ B) $y = -2x + \frac{5}{2}$
 C) $y = \frac{3}{2}x - 2$ D) $y = -\frac{5}{2}x - 2$
 E) $y = -\frac{3}{2}x - 2$

Sketch the graph of each line.

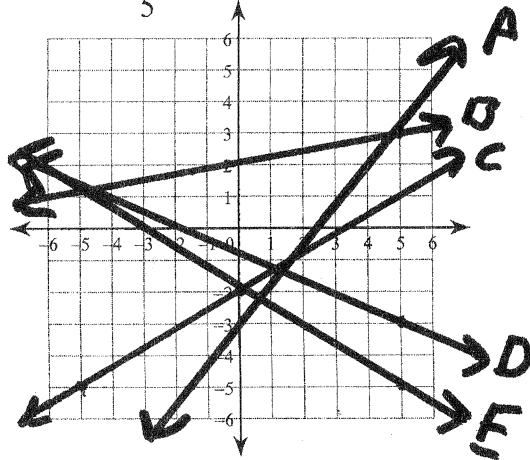
17) $y = \frac{4}{5}x - 1$



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

- A) $y = \frac{1}{5}x - 2$
 B) $y = -\frac{2}{5}x - 2$
 C) $y = \frac{3}{5}x - 2$
 D) $y = \frac{2}{5}x - 2$

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



Find the slope of the line through each pair of points.

19) $(-17, -20), (1, 12)$

- A) -4 B) $\frac{16}{9}$
 C) $-\frac{16}{9}$ D) $\frac{9}{16}$
 E) $-\frac{9}{16}$

20) $(-14, 1), (10, -3)$

- A) -6 B) 3
 C) $\frac{1}{6}$ D) $-\frac{1}{6}$
 E) 6