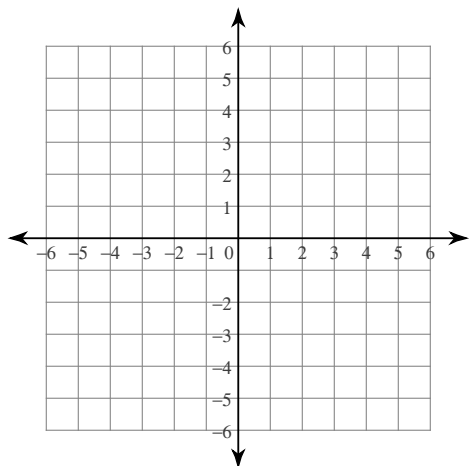


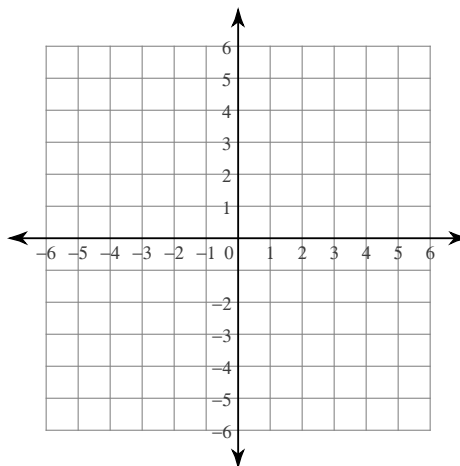
Combined Skills on Lines and 2 by 2 Linear Systems

Sketch the graph of each line. Identify the intercepts.

1) $3x - y = 2$

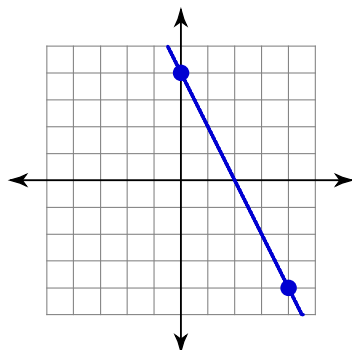


2) $y = -5x + 4$



Find the slope of each line.

3)



4) $y = -5x - 5$

5) through $(-6, 9)$, $(-6, -14)$

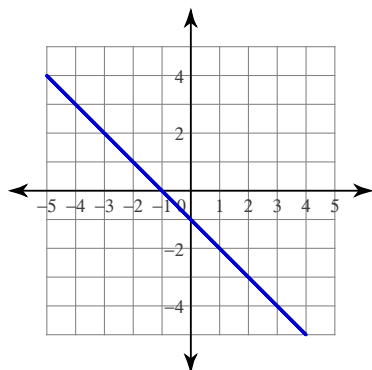
6) $2x - 3y = -9$

7) parallel to $-4 - y = 2x$

8) perpendicular to $x - 5y = -10$

Write the standard form of the equation of each line.

9)



10) through: $(0, -1)$, slope $= -\frac{1}{4}$

11) through: $(0, -4)$ and $(-1, 3)$

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

13) through: $(4, 0)$, perp. to $4x + 3y = 0$

14) through $(8, -4)$ and parallel to the y -axis

Solve each system by substitution.

15) $y = -3x + 5$
 $2x + 3y = 1$

16) $y = x + 4$
 $y = 3x + 4$

17) $-8x - 6y = -4$
 $-x + y = -4$

Solve each system by addition.

18) $-x + 5y = 26$
 $7x - 5y = -2$

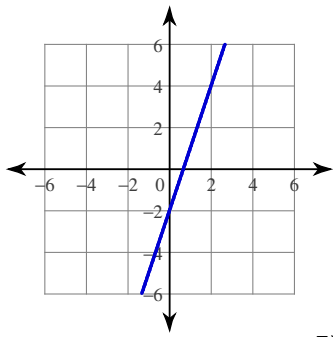
19) $-2x + y = -12$
 $-10x + y = -28$

20) $8x + 8y = 8$
 $-4x - y = 8$

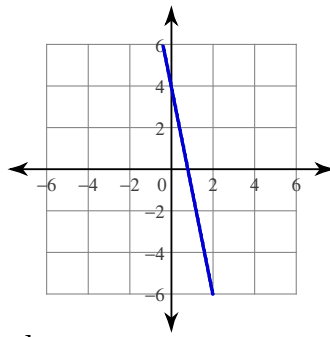
21) $5x + 6y = 16$
 $6x - 5y = 7$

Answers to Combined Skills on Lines and 2 by 2 Linear Systems

1)



2)



3) -2

4) -5

5) Undefined

6) $\frac{2}{3}$

7) -2

8) -5

9) $x + y = -1$

10) $x + 4y = -4$

11) $7x + y = -4$

12) $7x - 4y = -1$

13) $3x - 4y = 12$

14) $x = 8$

15) $(2, -1)$

16) $(0, 4)$

17) $(2, -2)$

18) $(4, 6)$

19) $(2, -8)$

20) $(-3, 4)$

21) $(2, 1)$