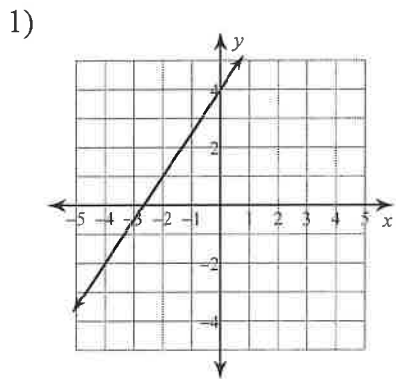
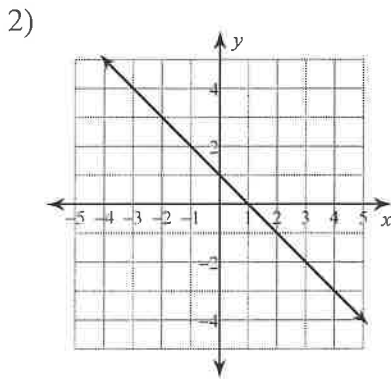


Worksheet 1.3C

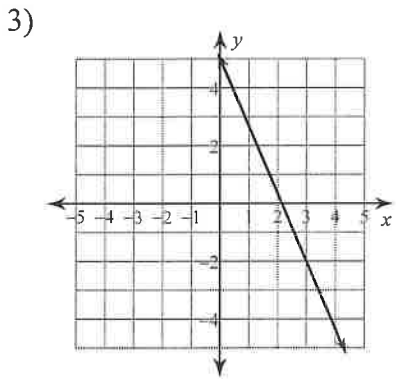
Write the slope-intercept form of the equation of each line.



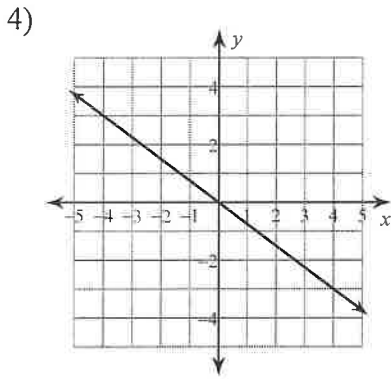
$$y = \frac{3}{2}x + 4$$



$$y = -x + 1$$



$$y = -\frac{7}{3}x + 5$$



$$y = -\frac{3}{4}x$$

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

5) Slope = 6, y-intercept = 2  
 $y = 6x + 2$

6) Slope = 8, y-intercept = -4  
 $y = 8x - 4$

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

7) through: (5, 4) and (4, -2)  
 $y = 6x - 26$

8) through: (4, -4) and (3, 4)  
 $y = -8x + 28$

9) through: (2, -4) and (1, 5)  
 $y = -9x + 14$

10) through: (0, -2) and (-1, -5)  
 $y = 3x - 2$

Solve each system by substitution.

11)  $x - 4y = 14$   
 $-5x + 6y = -14$   
 (-2, -4)

12)  $4x + y = -23$   
 $2x + 8y = -4$   
 (-6, 1)

13)  $-3x - 3y = 15$   
 $y = -1$   
 (-4, -1)

14)  $y = 2$   
 $-3x - 5y = -7$   
 (-1, 2)

$$\begin{aligned} 15) \quad & -8x - 6y = -22 \\ & -x + y = -1 \\ & (2, 1) \end{aligned}$$

$$\begin{aligned} 16) \quad & x - 3y = 16 \\ & -6x + 3y = -6 \\ & (-2, -6) \end{aligned}$$

**Solve each system by elimination.**

$$\begin{aligned} 17) \quad & -9x - 5y = 30 \\ & 18x - 4y = 24 \\ & (0, -6) \end{aligned}$$

$$\begin{aligned} 18) \quad & 2x + 3y = 18 \\ & -6x + y = 26 \\ & (-3, 8) \end{aligned}$$

$$\begin{aligned} 19) \quad & -8x + 9y = 17 \\ & x - y = -3 \\ & (-10, -7) \end{aligned}$$

$$\begin{aligned} 20) \quad & 8x - 9y = 13 \\ & 2x - 2y = 4 \\ & (5, 3) \end{aligned}$$

$$\begin{aligned} 21) \quad & -x + y = 0 \\ & -4x - 5y = -9 \\ & (1, 1) \end{aligned}$$

$$\begin{aligned} 22) \quad & -4x - 3y = -16 \\ & 5x + 12y = -13 \\ & (7, -4) \end{aligned}$$

$$\begin{aligned} 23) \quad & x - 9y = 26 \\ & -2x - 3y = 11 \\ & (-1, -3) \end{aligned}$$

$$\begin{aligned} 24) \quad & -x - 6y = -25 \\ & -3x - 3y = -30 \\ & (7, 3) \end{aligned}$$

$$\begin{aligned} 25) \quad & 6x + 4y = 20 \\ & -2x + 5y = 25 \\ & (0, 5) \end{aligned}$$

$$\begin{aligned} 26) \quad & x + 3y = 6 \\ & 8x + 12y = 24 \\ & (0, 2) \end{aligned}$$

$$\begin{aligned} 27) \quad & 18x - 5y = 22 \\ & -9x + y = -26 \\ & (4, 10) \end{aligned}$$

$$\begin{aligned} 28) \quad & 8x - 4y = -24 \\ & -7x - 12y = -10 \\ & (-2, 2) \end{aligned}$$