

**Solve.**

1)  $6p + 7p = 0$

2)  $-66 = 3(4m + 2) - 8(m + 5)$

3)  $-6n = -7n + 3n$

4)  $2(7p - 5) = -31 + 7p$

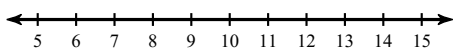
5)  $\frac{n}{5} = \frac{10}{2}$

6)  $\frac{2}{b} = \frac{4}{b - 10}$

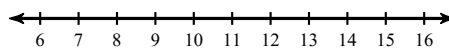
7)  $\frac{10}{9} = \frac{x}{x - 2}$

**Solve each inequality and graph its solution.**

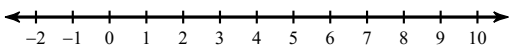
8)  $-88 \leq -8(n + 4)$



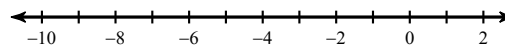
9)  $7 - x > 5 - (x - 2)$

**Solve each compound inequality and graph its solution.**

10)  $-42 < -6n + 6 < -36$



11)  $4x + 8 \geq 4$  or  $5x - 1 < -16$

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

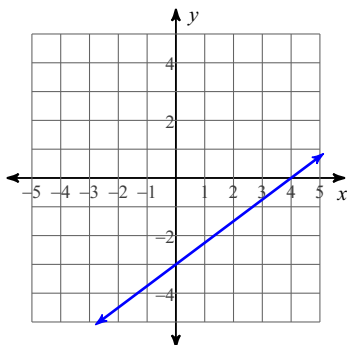
12)  $(-2, -10), (0, 2)$

13)  $(-12, 1), (18, -17)$

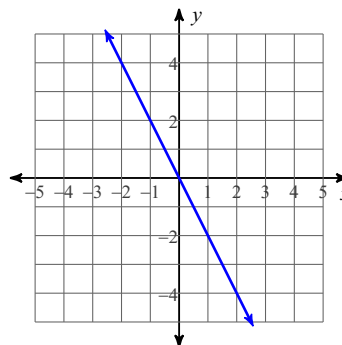
14)  $(1, -11), (15, -9)$

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

15)



16)



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

17) Slope =  $\frac{1}{5}$ , y-intercept =  $-3$

18) Slope =  $\frac{7}{4}$ , y-intercept =  $-3$

19) Slope =  $-2$ , y-intercept =  $0$

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

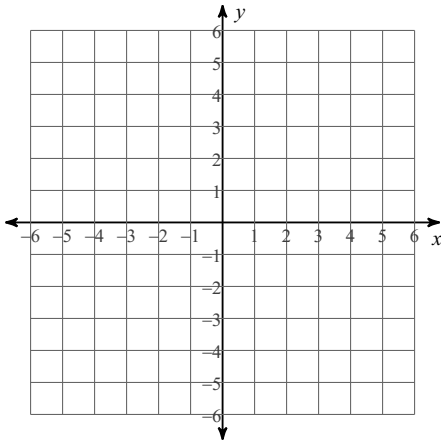
20) through:  $(1, -4)$ , slope = undefined

21) through:  $(4, 3)$ , slope =  $1$

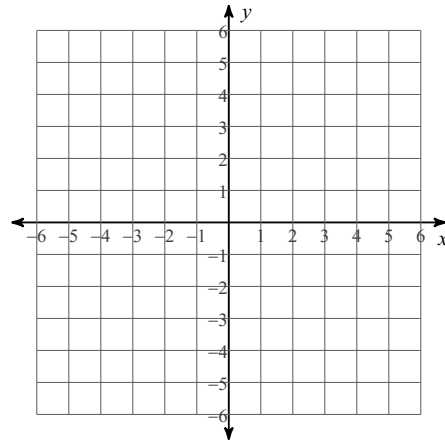
22) through:  $(2, 4)$ , slope =  $4$

Sketch the graph of each line.

23)  $7x + 4y = 16$

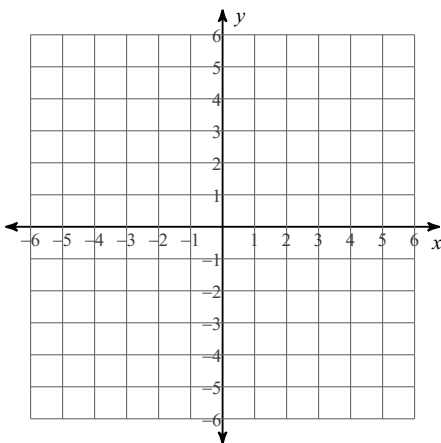


24)  $4x - y = -3$

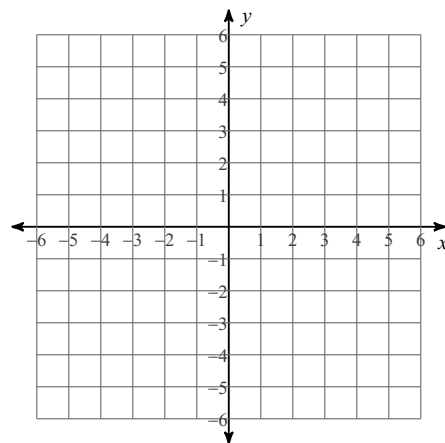


Sketch the graph of each linear inequality.

25)  $3x + 2y \leq -2$



26)  $y \geq x - 4$



# Answers to (ID: 1)

1)  $\{0\}$

2)  $\{-8\}$

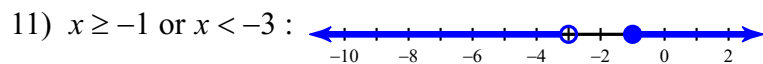
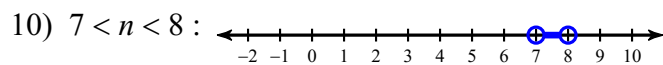
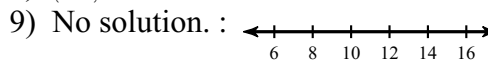
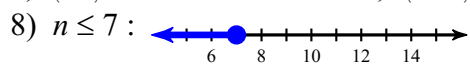
3)  $\{0\}$

4)  $\{-3\}$

5)  $\{25\}$

6)  $\{-10\}$

7)  $\{20\}$



12) 6

13)  $-\frac{3}{5}$

14)  $\frac{1}{7}$

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

16)  $y = -2x$

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

18)  $y = \frac{7}{4}x - 3$

19)  $y = -2x$

20)  $x = 1$

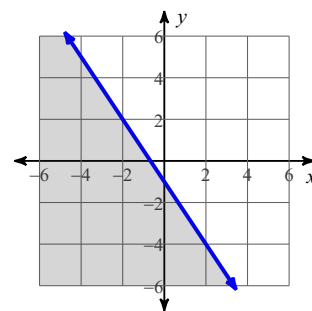
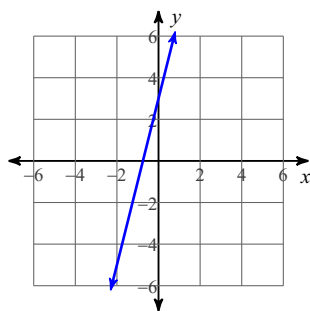
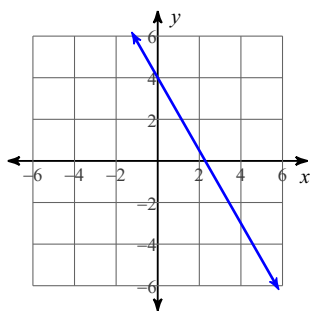
21)  $y = x - 1$

22)  $y = 4x - 4$

23)

24)

25)



26)

