

LEVEL: EMERGING

Directions: Find the distance between the following points.

1) $(-4,5)$ and $(6,8)$

2) $(-1,-2)$ and $(0,6)$

Distance: _____

Distance: _____

3) $(3,4)$ and $(10,5)$

4) $(3,7)$ and $(-11,5)$

Distance: _____

Distance: _____

LEVEL: PROFICIENT

Directions: Solve the following systems by substitution.

5)
$$\begin{cases} y = 2x - 2 \\ y = -x - 4 \end{cases}$$

6)
$$\begin{cases} \frac{3}{2}y + \frac{9}{2} = 6x \\ \frac{4}{3}y = \frac{8}{3}x - 12 \end{cases}$$

Point of intersection: _____

Point of intersection: _____

7) Find the distance between the point $A(5,4)$ and the y -axis.

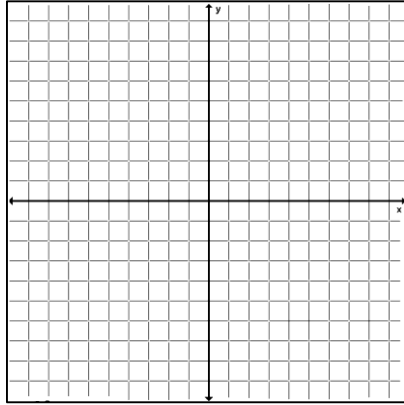
8) Find the distance between the point $A(-7,6)$ and the line $y = 0$.

Distance: _____

Distance: _____

LEVEL: MASTERY

9) Find the distance between the point A(2,-8) and the line $y = -\frac{2}{3}x + 2$. Round to the nearest hundredth.

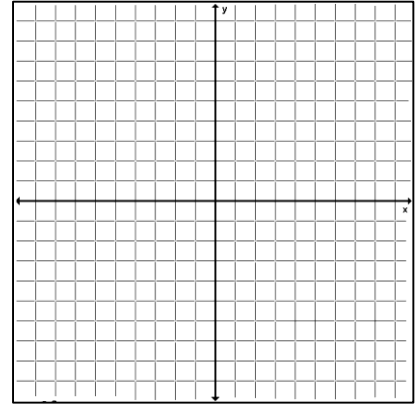


Distance: _____

11) Find the distance between the point A(1,6) and the line $y = \frac{4}{5}x - 3$. Round to the nearest hundredth.

Distance: _____

10) Find the distance between the point A(-2,3) and the line $4x + 2y = 6$. Round to the nearest hundredth.



Distance: _____

12) Find the distance between the lines $y = -\frac{1}{3}x + 4$ and $y = -\frac{1}{3}x - 6$.

Distance: _____