

## 7.5 Practice Problems answers

Directions: Tell whether the ordered pair is a solution of the inequality.

1)  $x \geq -3$ ;  $(-4, 0)$

$$-4 \geq -3$$

Not A  
SOLUTION

2)  $\frac{3}{4}x - \frac{1}{3}y < 6$ ;  $(-8, 12)$

$$\frac{3}{4}(-8) - \frac{1}{3}(12) < 6$$

$$-6 - 4 < 6$$

$$-10 < 6$$

Yes!

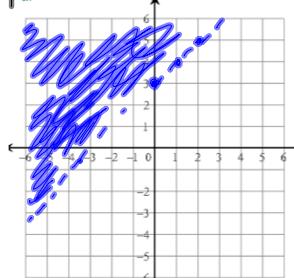
3) Which ordered pair is not a solution of  $x + 5y < 15$ ?

- a)  $(1, -3)$  b)  $(1, 3)$  c)  $(1, 3)$  d)  $(3, 2)$

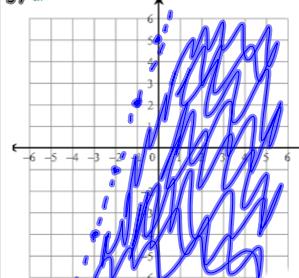
$$\begin{array}{l|l|l} -1+5(-3) < 15 & -1+5(3) < 15 & 1+5(5) < 15 \\ -1-15 < 15 & -1+15 < 15 & 1+25 < 15 \\ -16 < 15 & 14 < 15 & 26 < 15 \\ \checkmark & \checkmark & \text{No} \end{array}$$

Directions: Graph the Inequality.

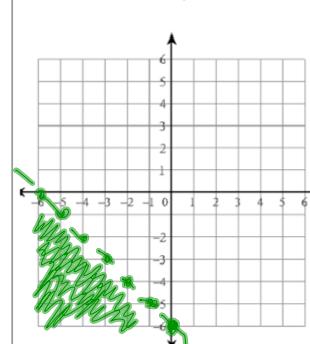
4)  $y > x + 3$



5)  $y < 3x + 5$



6)  $x + y < -6$



7)  $x + 4y < 8$

