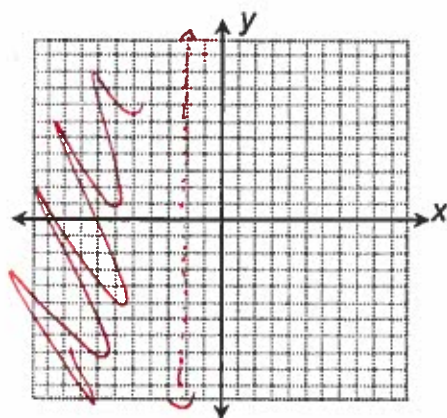
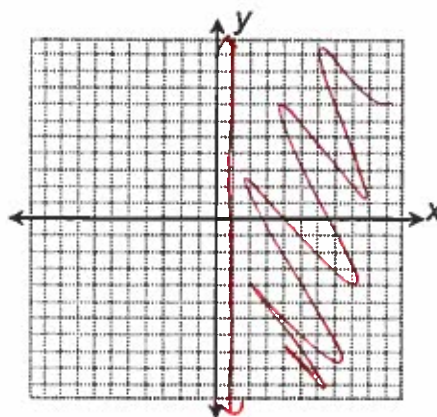
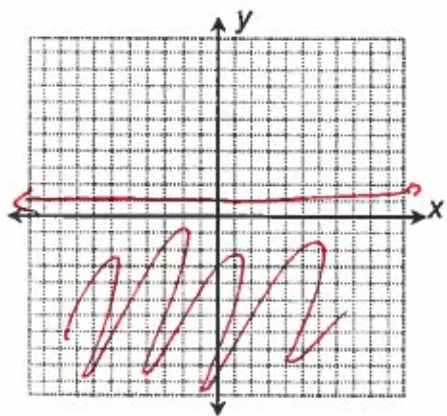
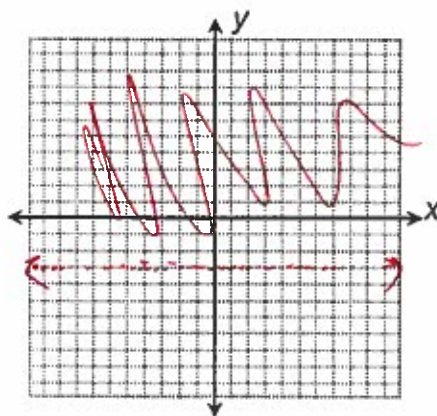


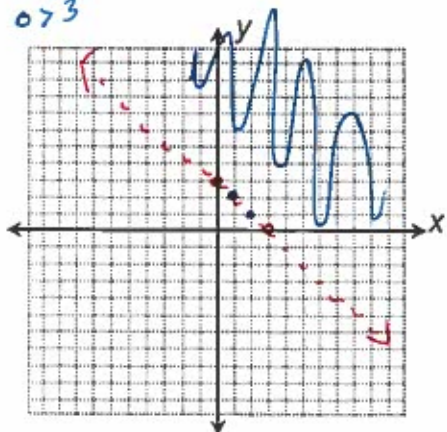
## Section 5.6 Graphing

1) Sketch the graph of  $x < -2$ .2) Sketch the graph of  $x \geq 1$ .3) Sketch the graph of  $y \leq 1$ .4) Sketch the graph of  $y > -3$ .5) Sketch the graph of  $x + y > 3$ .

$x$ -int: 3  
 $y$ -int: 3  
 (0,0) Test point!  
 $0 > 3$

OR

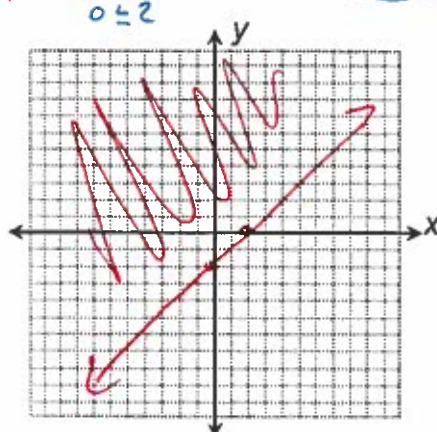
$-x$        $-x$   
 $y > -x + 3$

6) Sketch the graph of  $x - y \leq 2$ .

$x$ -int: 2  
 $y$ -int: -2  
 (0,0) Test point!  
 $0 \leq 2$

OR

$-y \leq -x + 2$   
 $y \geq x - 2$

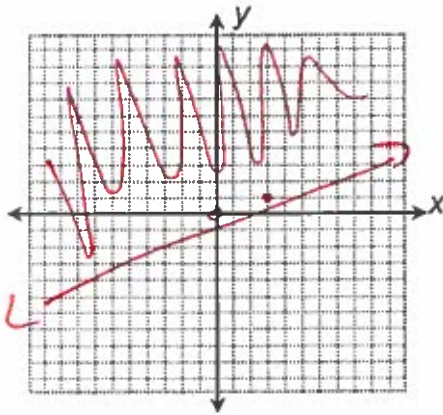


7) Sketch the graph of  $x - 3y \leq 0$

$$-x \quad - -x$$

$$\frac{-3y \leq -x}{-3} \div -3 \div 0$$

$$y \geq \frac{1}{3}x \div 0$$



Give a possible solution:

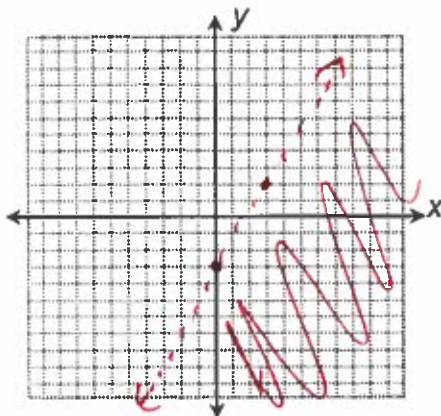
$$(0, 10)$$

9) Sketch the graph of  $5x - 3y > 9$

$$-5x \quad -5x$$

$$\frac{3y > -5x + 9}{-3} \div -3 \div -3$$

$$y < \frac{5}{3}x - 3$$



Which quadrants are included in the shading of the graph? Does it included the boundary line?

I, III + IV; No

8) Sketch the graph of  $3y - 2x < 6$

$$x\text{-int: } -3$$

$$+2x \quad +2x$$

$$y\text{-int: } 2$$

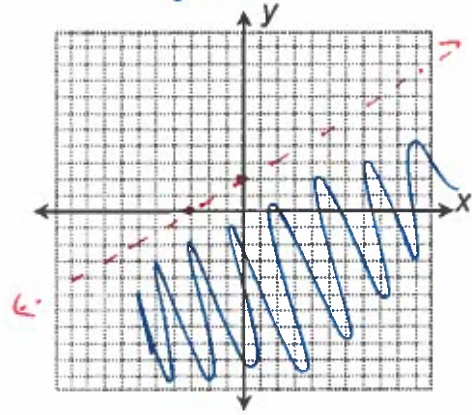
OR

$$\frac{3y < 2x + 6}{3} \div \frac{2x}{3} \div \frac{6}{3}$$

(0,0) test point!

$$0 < 6$$

$$y < \frac{2}{3}x + 2$$



Give a possible solution:

$$(5, -3)$$

10) Sketch the graph of  $2y - x > 10$

$$x\text{-int: } -10$$

OR

$$+x \quad +x$$

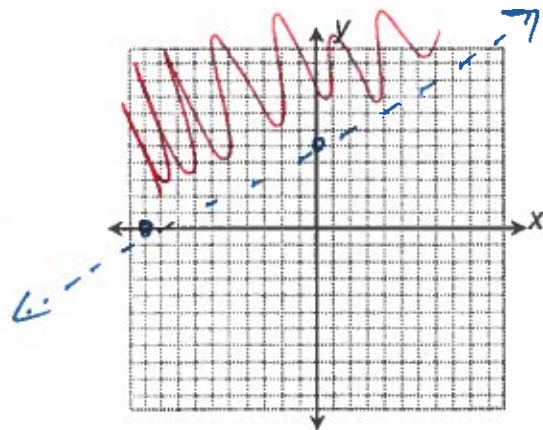
$$y\text{-int: } 5$$

$$\frac{2y > x + 10}{2} \div \frac{x}{2} \div \frac{10}{2}$$

(0,0) test point!

$$0 > 10$$

$$y > \frac{1}{2}x + 5$$



Which quadrants are included in the shading of the graph? Does it included the boundary line?

I + II; No