

Topic 3.4  
Graphing Systems of Inequalities  
Homework

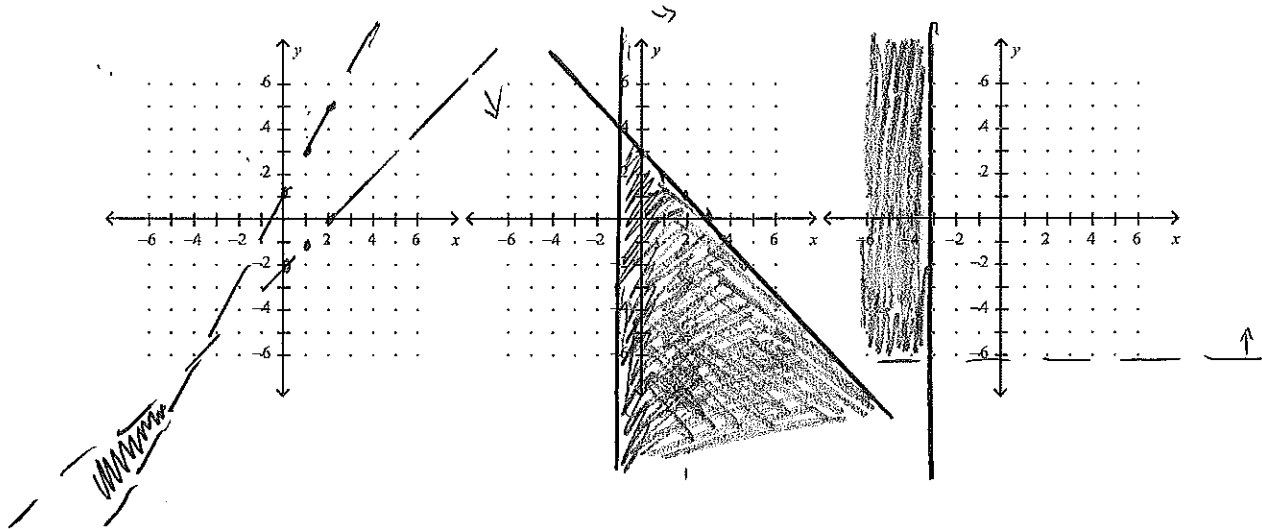
Name: KJ  
Date: \_\_\_\_\_

Graph the system of inequalities.

1.  $y > 2x + 1$   
 $y < x - 2$

2.  $x \geq -1$   
 $x + y \leq 3$   
 $y \leq -x + 3$

3.  $y > -6$   
 $x \leq -3$



4.  $3x + 5y < 10$   
 $2x - 3y < 6$

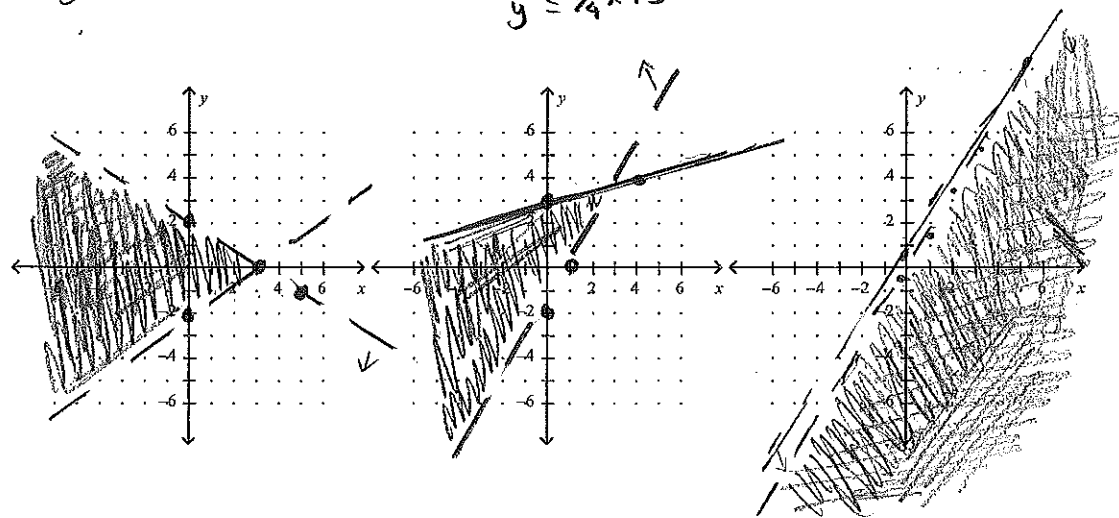
$5y < -3x + 10$   
 $y < -\frac{3}{5}x + 2$   
 $-3y < -2x + 6$   
 $y > \frac{2}{3}x - 2$

5.  $x - 4y \geq -12$   
 $2x - 2 < y$

$4y > 2x - 2$   
 $-4y \geq -x - 12$   
 $y \leq \frac{1}{4}x + 3$

6.  $5y - 8x < 3$   
 $4x - 2y > 1$

$5y < 8x + 3$   
 $y < \frac{8}{5}x + \frac{3}{5}$   
 $-2y > -4x + 1$   
 $y < 2x - \frac{1}{2}$



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Name: Key  
 Date: \_\_\_\_\_

7.  $y > -2$   
 $x > -3$   
 $y < -\frac{2}{3}x + 1$

8.  $y < 2x + 1$   
 $y < -x + 6$   
 $y > -\frac{3}{4}x + 2$

9.  $y \leq 4$   
 $2x + 4y > -16$   
 $3y - 2x \leq 9$   
 $3y \leq 2x + 9$   
 $y \leq \frac{2}{3}x + 3$   
 $4y > -2x - 16$   
 $y > -\frac{1}{2}x - 4$

