

N: Key

D: \_\_\_\_\_

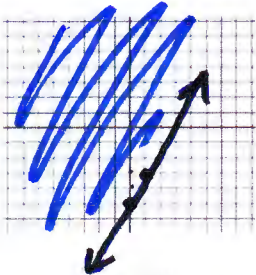
P: 1 2 3 4 5 6

Algebra 2 : Topic 2 // 2.5 Practice // **Practice 3**

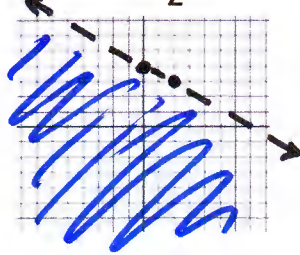
Mission Hills Math 2013

Sketch the graphs of the following inequalities. Use graph paper!

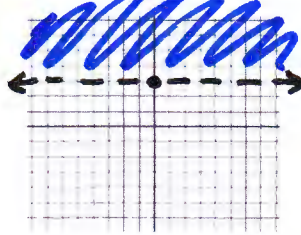
1.  $y \geq 2x - 5$



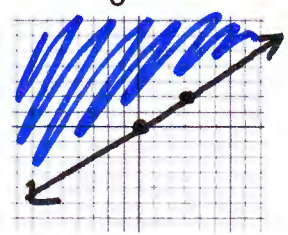
2.  $y < -\frac{1}{2}x + 4$



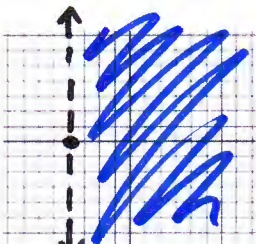
3.  $y > 3$



4.  $y \geq \frac{2}{3}x + 0$

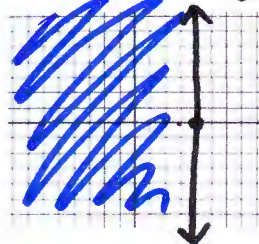


5.  $\frac{3x}{3} > \frac{-12}{3}$   
 $x > -4$

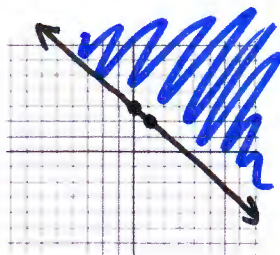


6.  $2x + 2 \leq 10$   
 $\frac{2x}{2} \leq \frac{8}{2}$

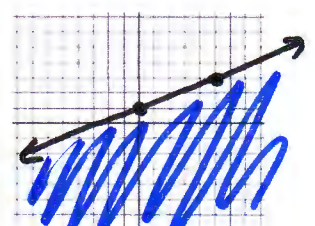
$x \leq 4$



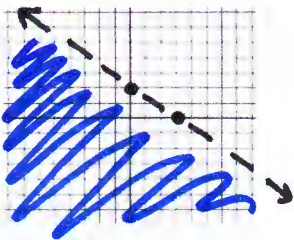
7.  $y \geq -x + 3$



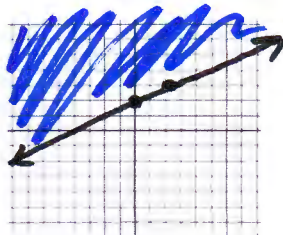
8.  $-y \leq \frac{2}{5}x + 1$



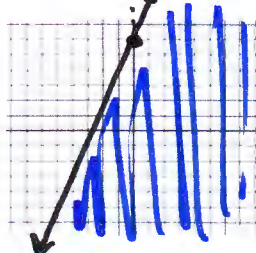
9.  $2x + 3y < 6$   
 $\frac{-2x}{3} \frac{-2x}{3}$   
 $\frac{3y}{3} < \frac{-2x + 6}{3}$   
 $y < -\frac{2}{3}x + 2$



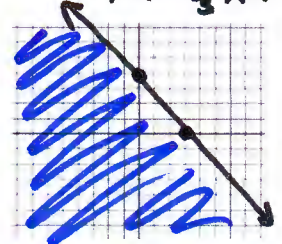
10.  $-x + 2y \geq 4$   
 $\frac{-x}{2} \frac{-x}{2}$   
 $\frac{2y}{2} \geq \frac{x + 4}{2}$   
 $y \geq \frac{1}{2}x + 2$



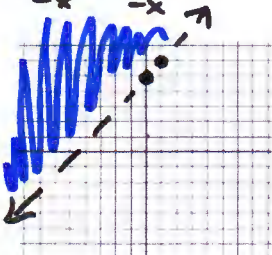
11.  $3x - y \geq 6$   
 $\frac{-3x}{-1} \frac{-3x}{-1}$   
 $-y \geq -3x + 6$   
 $y \leq 3x - 6$



12.  $4x + 3y \leq 12$   
 $\frac{-4x}{3} \frac{-4x}{3}$   
 $\frac{3y}{3} \leq \frac{-4x + 12}{3}$   
 $y \leq -\frac{4}{3}x + 4$

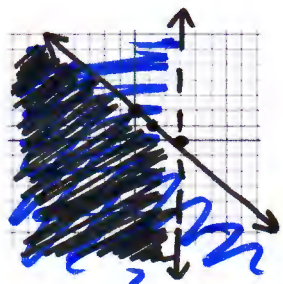


13.  $x < -5 + y$   
 $\frac{-x}{-1} \frac{-x}{-1}$   
 $-x - y < -5$   
 $-x - y < -5$

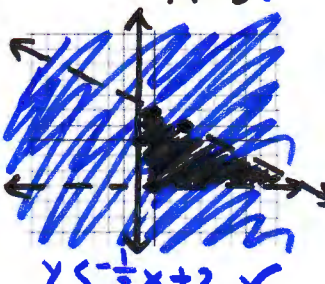


$(-1) -y < -x - 5$   
 $y > x + 5$

14.  $\begin{cases} y \leq -x + 2 \\ x < 3 \end{cases}$



15.  $\begin{cases} -2y > x - 4 \\ x \geq -1 \end{cases}$   
 $(-1) -y < 3(-1)$   
 $y > -3$



16.  $\begin{cases} x \leq 5 \\ y \geq -4 \\ x \geq -2 \\ y \leq 6 \end{cases}$

