

1. Solve for  $y$
  2. Graph using slope  
y-int.
  3. Solid or dash?
  4. Shade
- \*\*\* When you divide/mult.  
by a negative you flip the  
inequality

solid  
 $\leq, \geq, =$

dash  
 $<, >$

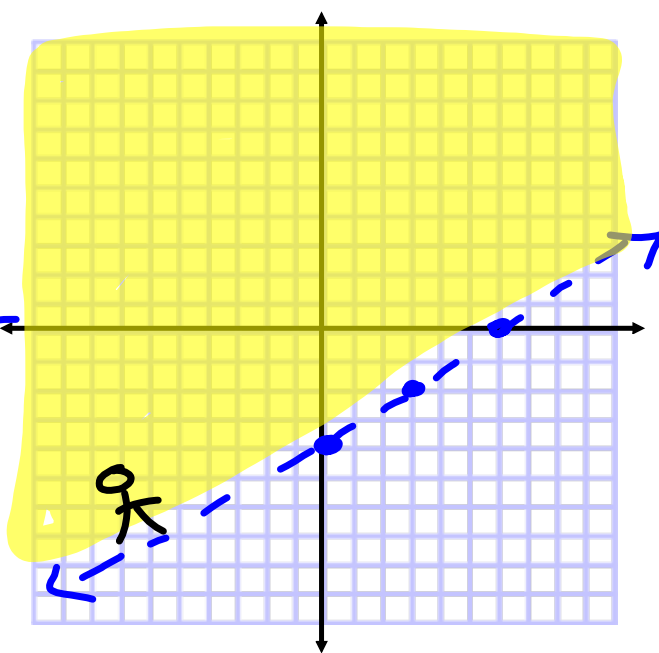
Shade above

$\geq, >$

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$\leq, <$   
shade below

$$\begin{aligned}
 &2x - 3y < 12 \\
 &\begin{array}{r} -2x \qquad \qquad -2x \\ \hline -3y < -2x + 12 \\ \hline \end{array} \\
 &\begin{array}{r} -3 \\ \hline y > \frac{2}{3}x - 4 \end{array} \\
 &m = \frac{2}{3} \\
 &b = -4
 \end{aligned}$$

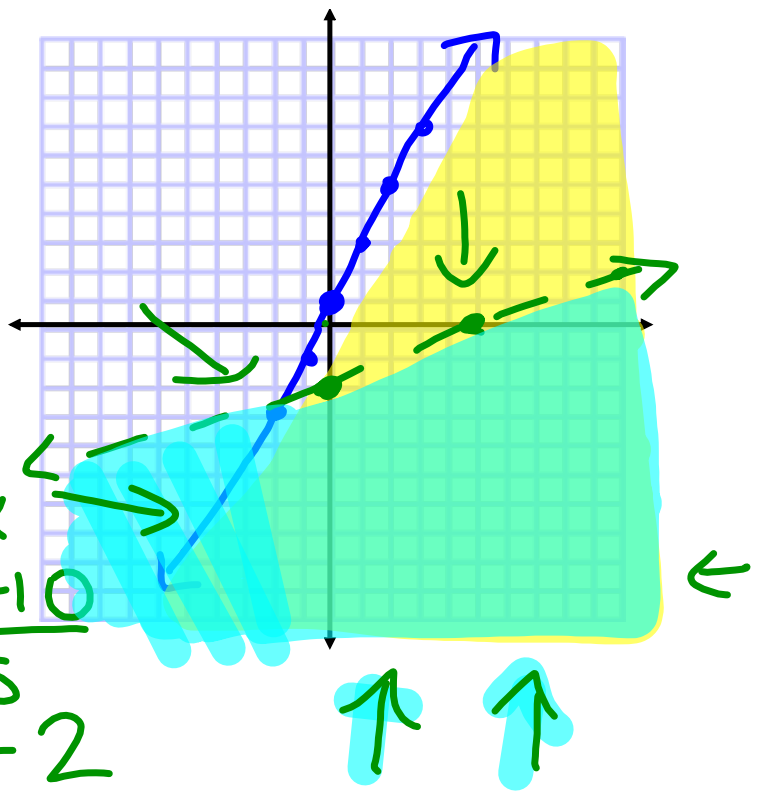


$$y - 1 \leq 2x$$

$$\begin{matrix} +1 & +1 \\ y \leq 2x + 1 \end{matrix}$$

$$2x - 5y > 10$$

$$\begin{matrix} -2x & -2x \\ -5y > -2x + 10 \\ \hline -5 & -5 \\ y < \frac{2}{5}x - 2 \end{matrix}$$



$$x - y > 3$$

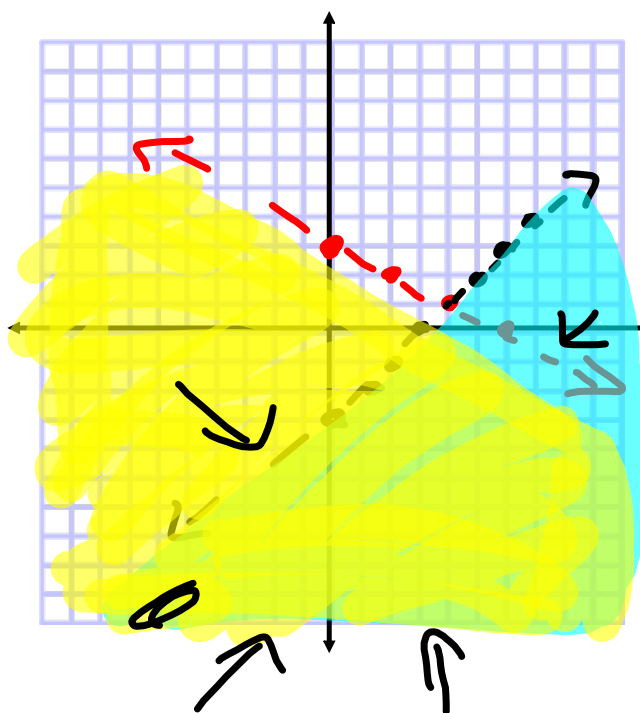
$$\frac{-y}{-1} > \frac{-x + 3}{-1}$$

$$y < -x - 3$$

$$x + 2y < 6$$

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

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



$$y > 2$$

$$x < -2$$

