

## 6.7 Solving Systems of Linear Inequalities

Graph each system of linear inequalities.

$$\text{Ex) } \begin{cases} y > -\frac{3}{2}x + 2 \\ y < \frac{1}{2}x + 4 \end{cases}$$

$$y > -\frac{3}{2}x + 2$$

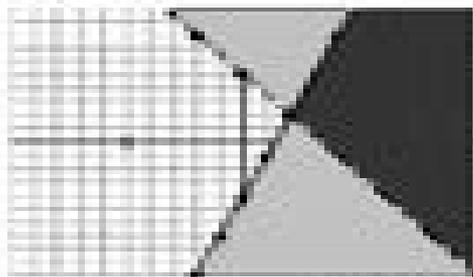
$$m = -\frac{3}{2} \quad b = 2$$

Sloped: Above

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

$$m = \frac{1}{2} \quad b = 4$$

Sloped: Below



### Steps

- 1) Write the equations in slope-intercept form.
- 2) Graph the  $y$ -intercept and plot points using slope.
- 3) Draw the line connecting dots (solid or dashed).  
 $< , >$  Dashed line     $\dots\dots\dots$   
 $\leq , \geq$  Solid line     $\text{—————}$
- 4) Shade above or below the  $y$ -intercept.  
 $> , >$  Above  $y$ -intercept  
 $< , <$  Below  $y$ -intercept
- 5) Do the same for the other line.
- 6) Thickly shade the overlap.

Tell whether the ordered pair is a solution of the given system.

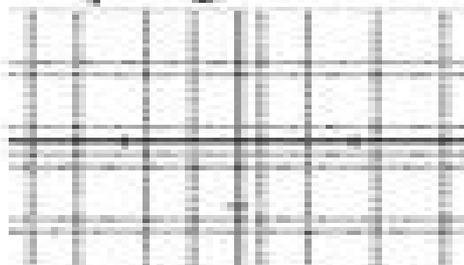
1.  $(4, 1)$   $\begin{cases} y < 2x - 3 \\ y > -3x + 2 \end{cases}$

2.  $(-3, 5)$   $\begin{cases} y > -2x - 4 \\ y < 4x + 6 \end{cases}$

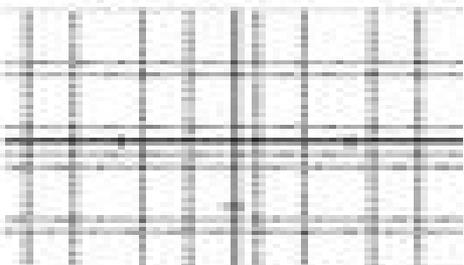
3.  $(-2, -1)$   $\begin{cases} y < 2x + 3 \\ y > -4x - 3 \end{cases}$

Graph each system of linear inequalities.

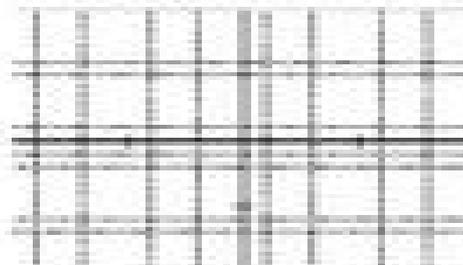
4.  $\begin{cases} y > \frac{1}{2}x + 5 \\ y > -\frac{3}{2}x - 3 \end{cases}$



5.  $\begin{cases} y > \frac{3}{2}x - 3 \\ y < -x + 7 \end{cases}$



6.  $\begin{cases} y > 2x - 3 \\ y > \frac{1}{3}x + 2 \end{cases}$



# Holt Practice Solving System Of Linear Inequalities

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