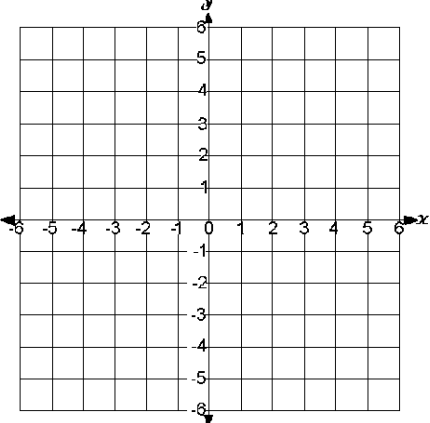
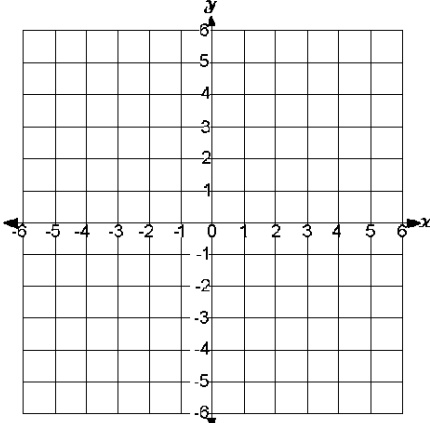
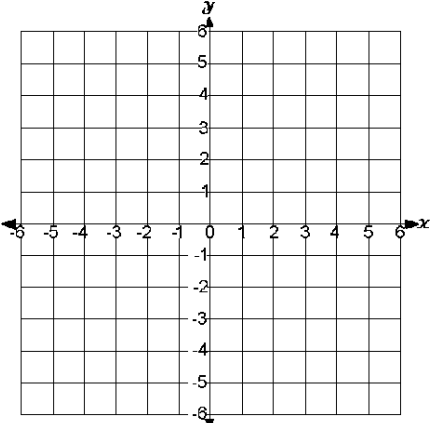


Algebra U6L4 – Graph Linear Inequalities (in any Form)

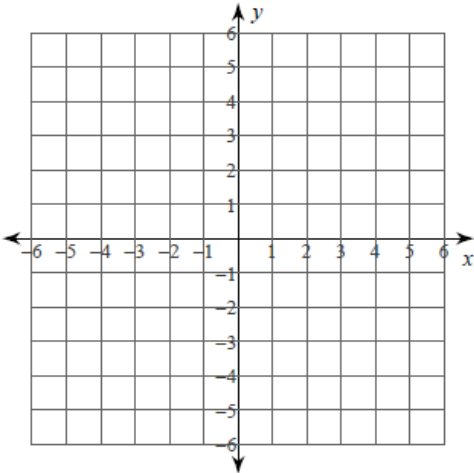
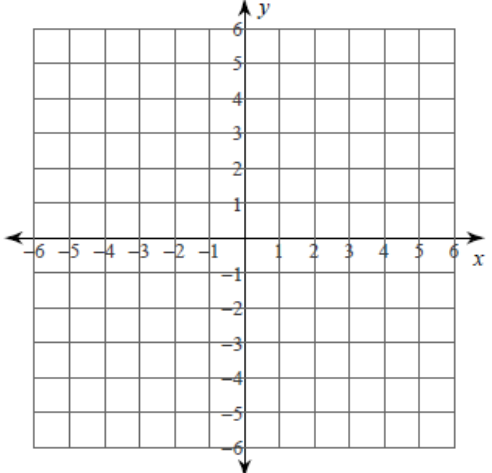
Warm Up...

$y > -2x - 5$ 	$y \leq \frac{5}{4}x - 6$ 	$y < 2$ 
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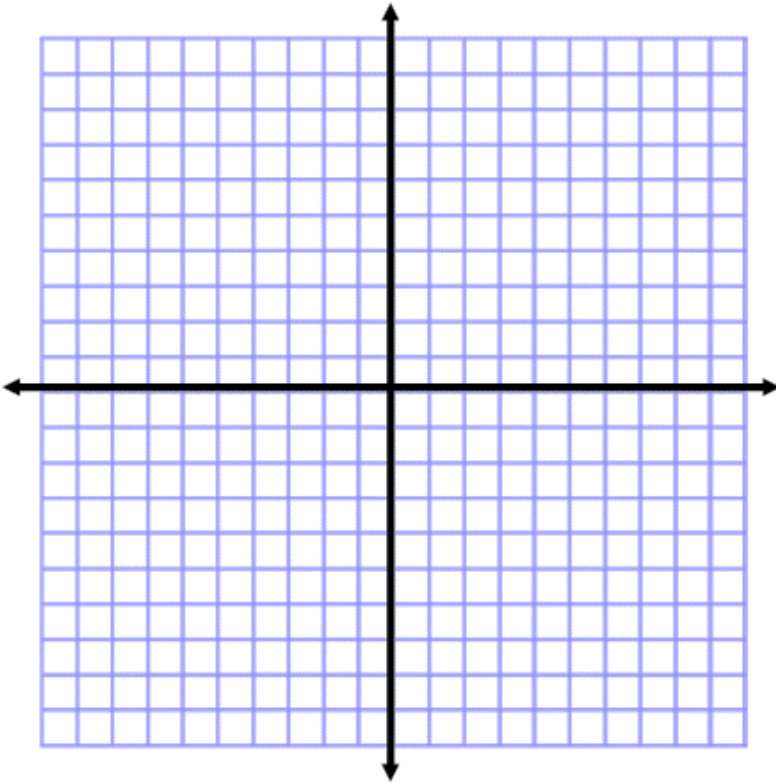
Today's Goal:

- KWBAT graph the solution set of a linear inequality given in any form
- WHY? Things won't always be as straight forward as yesterday. Sometimes we will receive an inequality that isn't written in slope-intercept form. Let's investigate how to graph these inequalities by using some of the skills we learned in the fall. This will help us with Algebra standard A.3D which will show up on at least 3 questions on our STAAR End of Course Test.

Two Methods:

<p><u>1 - Connect the X- and Y-Intercepts</u></p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%; text-align: center;"> $2x - 3y > 9$ </div> 	<p><u>2 – Solve for Y (Convert to Slope-Intercept Form)</u></p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%; text-align: center;"> $2x - 3y > 9$ </div> 
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Guided Practice



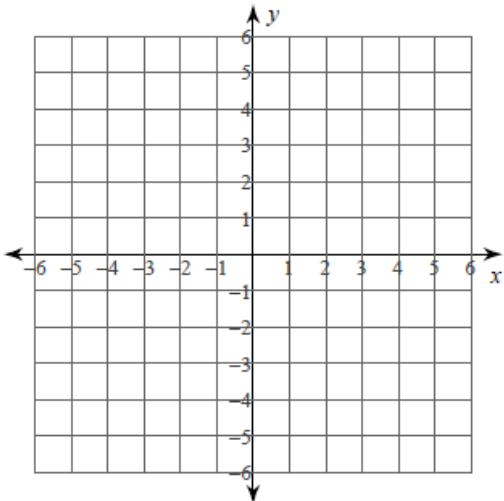
$$5x - 3y \leq -15$$

Two solutions: _____

Two non-solutions: _____

Independent Practice

9) $3x - 2y < 10$



12) $x - y > 2$

