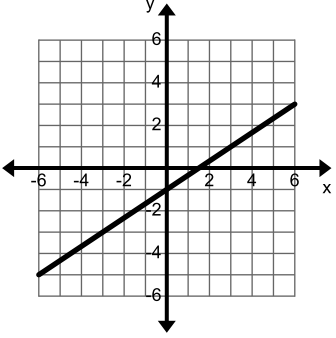
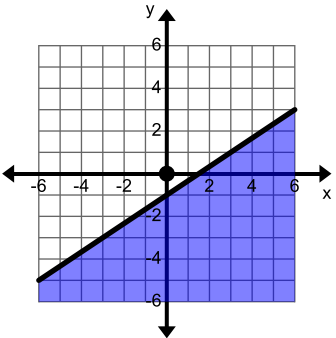
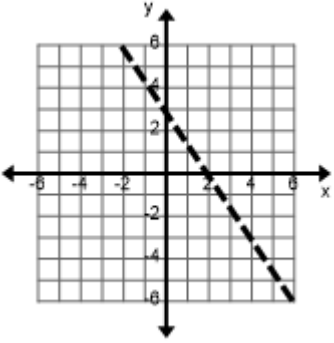
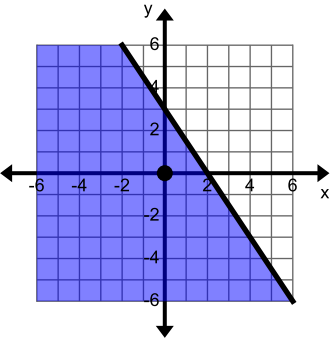


Graphing Inequalities

Example 1: Graph $y \leq \frac{2}{3}x - 1$.

	<p>Graph the boundary line $y = \frac{2}{3}x - 1$. Use a solid line because the inequality symbol is \leq.</p>
$y \leq \frac{2}{3}x - 1$ $0 \leq \frac{2}{3}(0) - 1$ $0 \leq -1$	<p>Pick a point to test that is not on the boundary line. The point $(0, 0)$ is usually a good point to pick. Plug the point into the inequality to see if it is true.</p>
	<p>The statement is not true, therefore the point $(0, 0)$ is not a solution. Shade the side that does not contain the point $(0, 0)$.</p>

Example 2: Graph $3x + 2y < 6$.

	<p>Graph the boundary line $3x + 2y = 6$. Use a dashed line because the inequality symbol is $<$.</p>
$3x + 2y < 6$ $3(0) + 2(0) < 6$ $0 < 6$	<p>Pick a point to test that is not on the boundary line. The point $(0, 0)$ is usually a good point to pick. Plug the point into the inequality to see if it is true.</p>
	<p>The statement is true, therefore the point $(0, 0)$ is a solution. Shade the side that contains the point $(0, 0)$.</p>