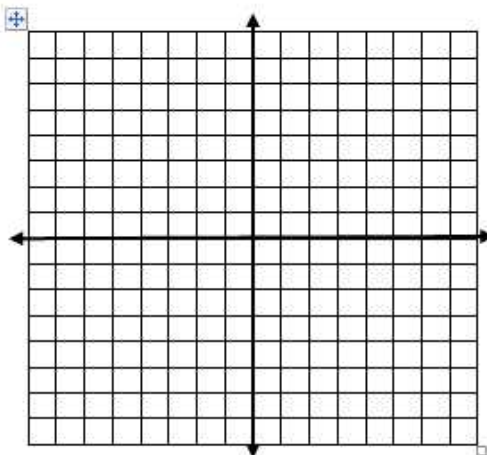


Graphing Inequalities

Linear Inequalities

1. Determine if the boundary (line) should be dashed or solid.
2. Graph the boundary.
3. Chose a point not on the boundary and test it in the inequality.
4. If the test point satisfies the inequality, shade the side of the boundary with the test point.

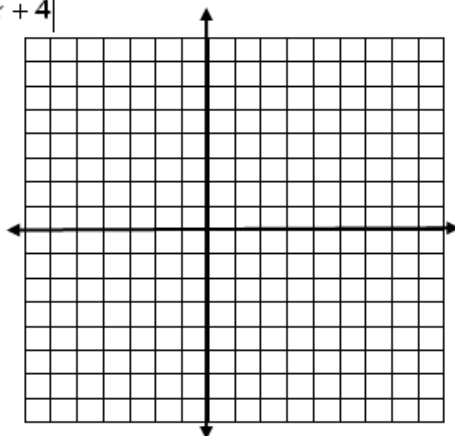
Example: $y > -2x + 4$



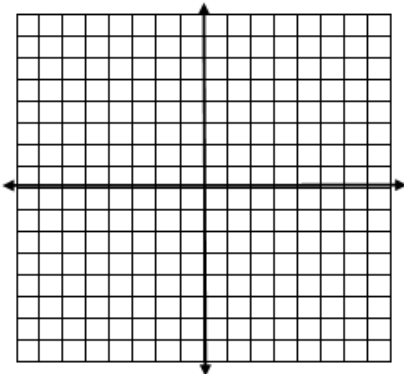
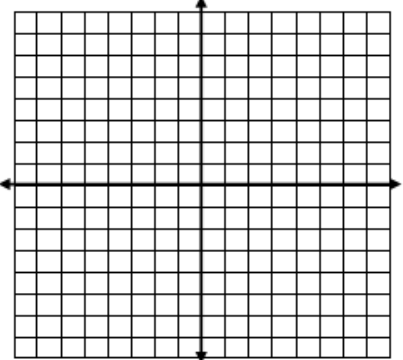
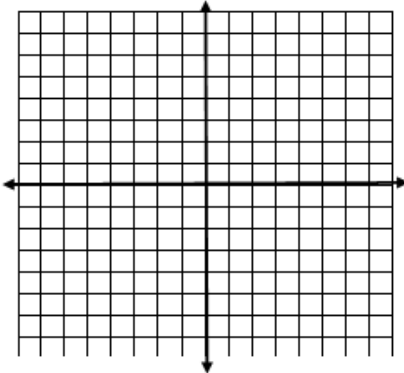
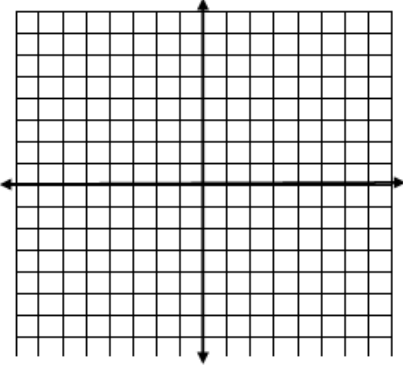
Absolute Value Inequalities

1. Determine if the boundary (lines) should be dashed or solid.
2. Graph the boundary.
3. Chose a point not on the boundary and test it in the inequality.
4. If the test point satisfies the inequality, shade the side of the boundary with the test point.

Example: $y > |-2x + 4|$



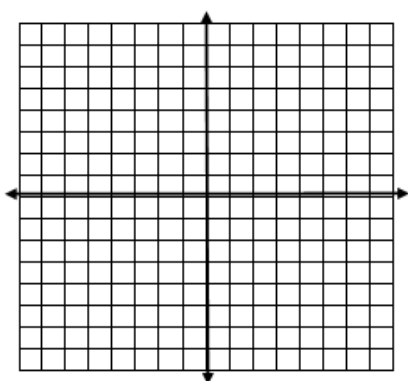
Absolute Value Functions
Graph each inequality.

<p>1. $y < x$</p> 	<p>2. $y \geq -x + 2$</p> 
<p>3. $y \leq 2 x$</p> 	<p>4. $y > 2x - 2$</p> 

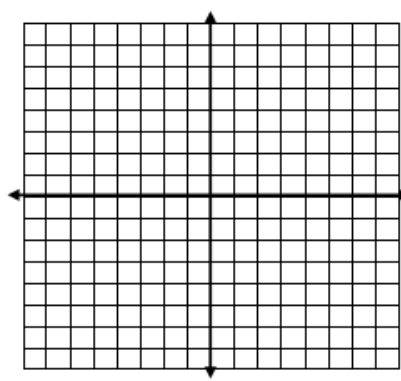
Absolute Value Functions (continued)

⊕

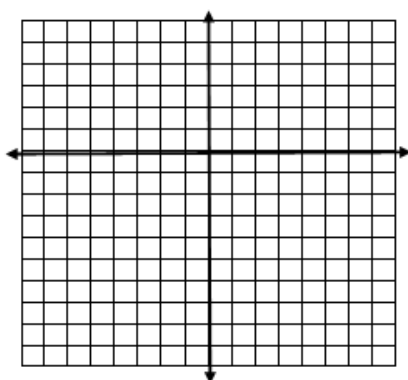
5. $y \geq -3|x| + 1$



6. $y \leq 2|x - 1|$



7. $y > |x| - 4$



8. $y < |x + 3| - 5$

