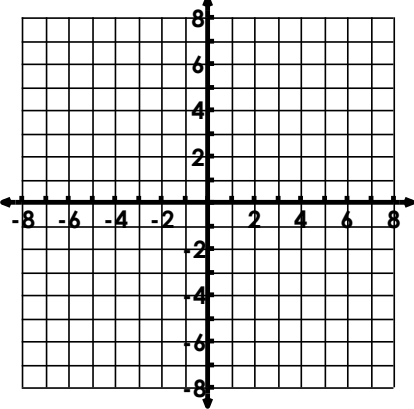
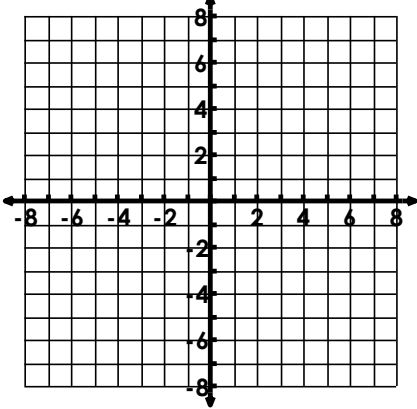
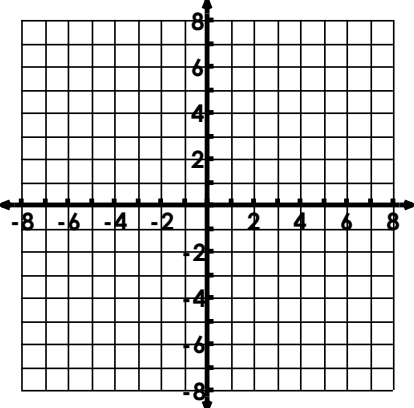
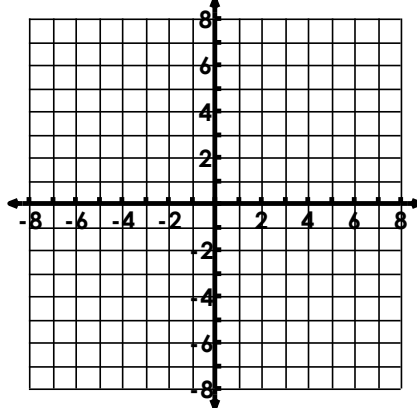
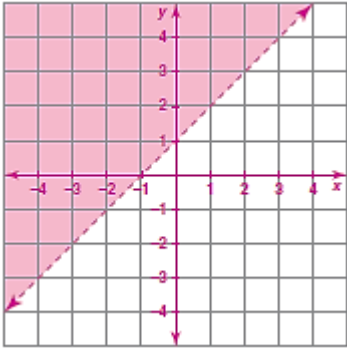
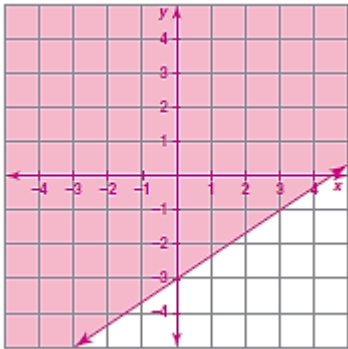
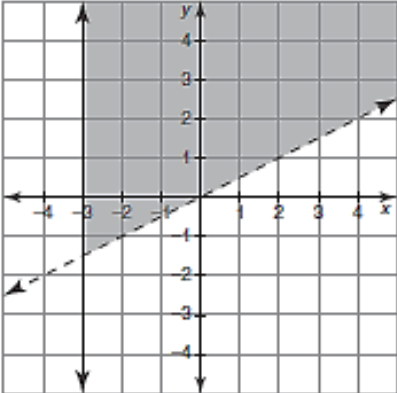


Systems of Inequalities Unit Review

What you need to know & be able to do	Things to remember	Examples	
<p>1. Graph a linear inequality</p>	<p>Make sure equation is solved for y</p> <p>Graph the line</p> <p>Determine if dashed or solid</p> <p>Determine whether to shade below or above the line</p> <p>*Golden Rule of Inequalities can apply here.</p>	<p>a. Graph $y > -\frac{1}{5}x + 1$</p> 	<p>b. $7x - 5y \geq -20$</p> 
<p>2. Solve a system of linear inequalities by graphing.</p>	<p>Determine if you have a solid or dashed line</p> <p>Then determine whether to shade above or below.</p> <p>Find the region where the shading overlapped.</p>	<p>a. Solve the system. Label the different regions as solution or not a solution.</p> $y < -3x + 2$ $y \geq x - 1$ 	<p>b. Solve the system. Label the different regions as solution or not a solution.</p> $x + y > 4$ $y > x - 1$ 

<p>3. Real World with Systems of Inequalities</p>		<p>a. Write a system to describe: <i>The maximum capacity for an elevator is 15 people and 3000 pounds. It is estimated that adults weight 200 pounds and children under 16 weight 100 pounds.</i></p>	<p>b. Write a system to describe: <i>Megan is selling tickets to North Polk's production of Footloose. North Polk's theater holds at most 700 people. Children's tickets are \$6.00 and adult tickets are \$10.00. She hopes to sell at least \$500 worth of tickets.</i></p>
<p>4. Naming Linear Inequalities</p>	<p>Identify: *Slope *Y-intercept *Type of Line *Shading</p>	<p>a. Name the inequality.</p> 	<p>b. Name the inequality.</p> 
<p>5. Naming Linear Systems</p>	<p>Identify: *Slope *Y-intercept *Type of Line *Shading</p>	<p>a. Name the system of inequalities.</p> 	<p>b. Name the system of inequalities.</p> 