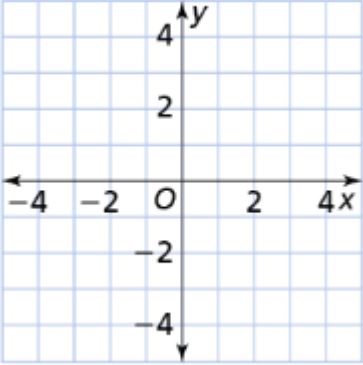
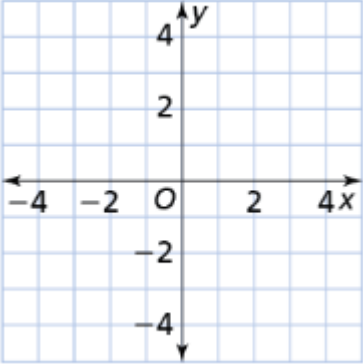
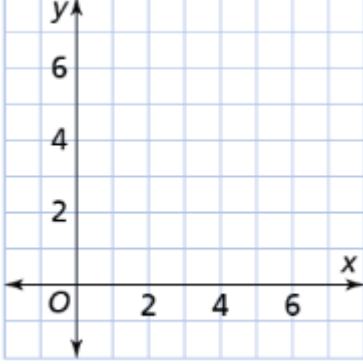


Name: \_\_\_\_\_ Teacher: \_\_\_\_\_ School: \_\_\_\_\_

**Grade 8: Lesson 12** Solving Systems by Graphing

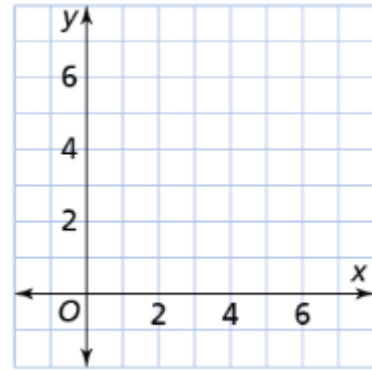
Complete the following exercises. You may use a calculator as needed. A straight edge will be helpful as you draw lines.

Graph each system of equations to determine the solutions. Don't forget to transform each equation into slope-intercept form first.

<p>1. <math>x + 4y = 8</math> <math>3x + 4y = 0</math></p> <p>Solution: _____</p>	
<p>2. <math>2x - 3y = 6</math> <math>4x - 6y = 12</math></p> <p>Solution: _____</p>	
<p>3. <math>x + 2y = 4</math> <math>4x + 8y = 64</math></p> <p>Solution: _____</p>	

4.  $y = 1.5x + 1$   
 $y = -1.5x + 5.5$

Solution: \_\_\_\_\_



5. The total cost,  $c$ , of renting a canoe for  $n$  hours can be represented by a system of equations.
- Write the system of equations that could be used to find the total cost,  $c$ , of renting a canoe for  $n$  hours.
  - Graph the system of equations
  - When would the total cost for renting a canoe be the same on both rivers? Explain.

River A	\$33
River B	\$5/hr plus \$13 deposit

