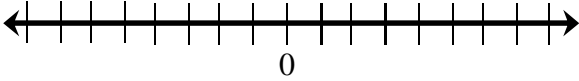
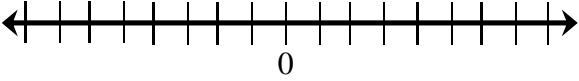


# IM 3

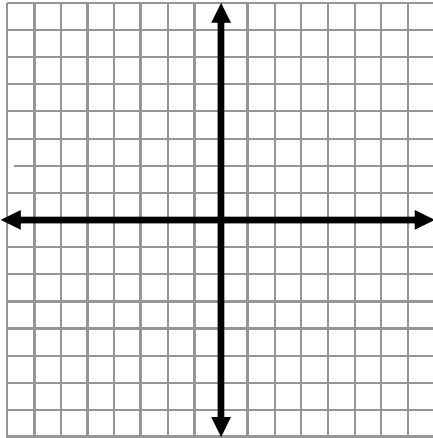
# Chapter 2 Review 1

Name: \_\_\_\_\_ Per: \_\_\_\_\_ Date: \_\_\_\_\_

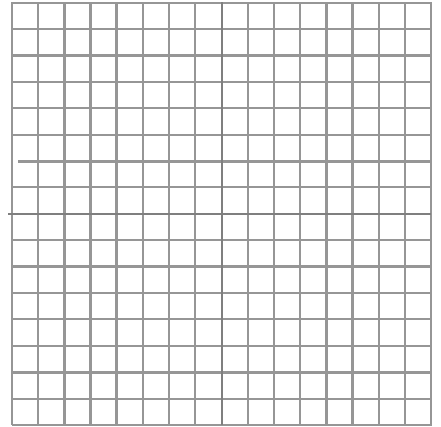
Show ALL work in the space provided.

<p>1. Solve and graph: <math>-28 &lt; 6x + 2 \leq -4</math></p> 	<p>2. Solve and graph: <math>7x - 1 \geq 20</math> or <math>-8x - 7 &gt; 9</math></p> 
<p>3. The row boats at Roeding Park cost <b>\$1.50</b> per hour plus \$5.00 for equipment. The Swans pedal boats at Echo Park cost \$1.25 per hour and \$11.00 for equipment. Write and solve an equation to find where the rental costs are the same. How long will it take and how much is the cost?</p>	<p>4. Solve the system: <math display="block">\begin{cases} 3x - 4y = 18 \\ 2x - 3y = 12 \end{cases}</math></p>
<p>5. At one showing of the latest <i>Star Wars</i>® movie, 115 people were in the audience. There were four times as many children as adults in the theater. Write a system of equations that represents the numbers of adults and children who attended the movie and solve the system to find the number of adults and the number of children who were in the theater.</p>	<p>6. The parking lot at <i>Universal Studios Hollywood</i>® cost \$15 for general parking and \$25 for preferred parking and has a total of 500 parking places. One Saturday, every spot in the lot was taken and \$8,790 was collected. How many of each type of parking spaces are there?</p>
<p>7. The newest park in Kerman is a rectangular with a perimeter of 210 yards. The length of the field is 9 yards less than four times the width. What are the dimensions of the field? Write and solve an equation.</p>	<p>8. Your sibling is having a college graduation party at a local social hall and has budgeted \$3,000 for the big event. If the social hall charges \$500 for the use of the facility and \$35 per person for a meal, what is the maximum number of people that may attend the shower? Write and solve an inequality.</p>

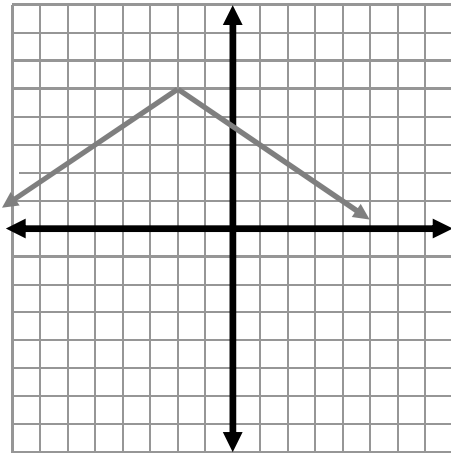
9. Graph  $3x - 6y = 36$



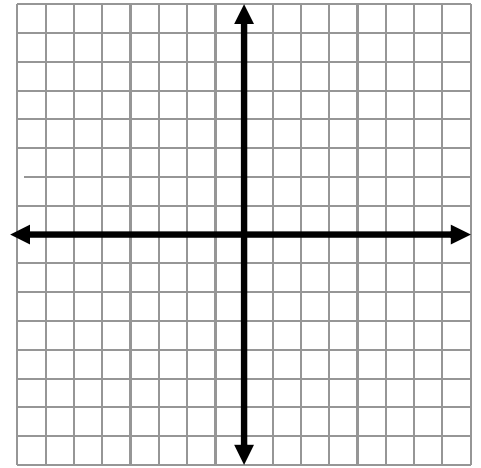
10. A cargo truck can hold no more than 18 small and large containers. It also can hold a maximum of 5 large containers. Write and graph a system that models this.



11. Write an equation for the graph shown.



12. Graph  $y < -\frac{3}{4}|x - 5| + 6$



13. Solve the system: 
$$\begin{cases} -2x + y + 4z = 16 \\ 4x - 3y - 4z = -10 \\ 3x + 2y - 2z = -11 \end{cases}$$

14. Solve the system: 
$$\begin{cases} x + y + z = -9 \\ 4x + y + z = -6 \\ 3y - z = 12 \end{cases}$$