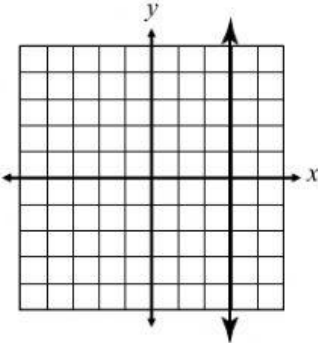
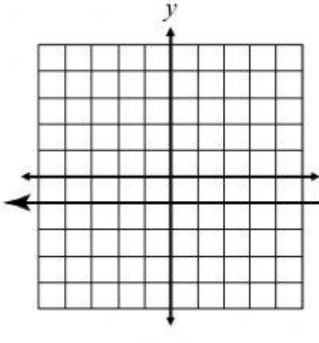
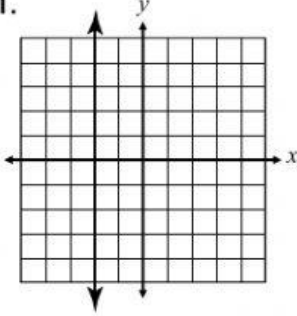
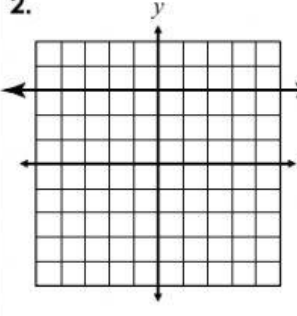
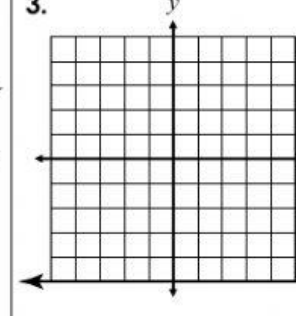
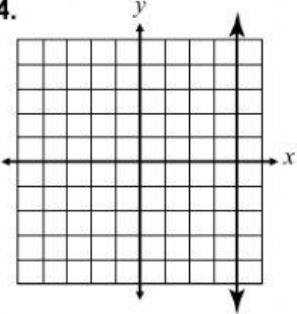
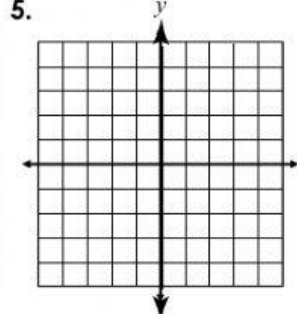
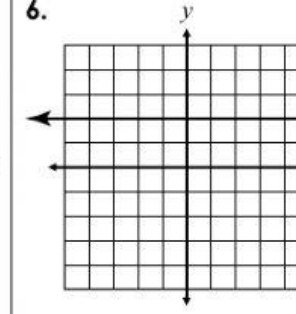


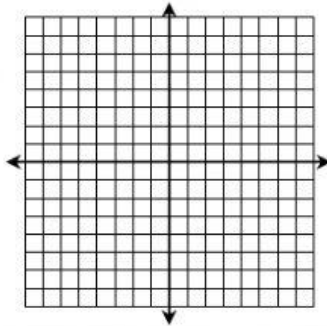
|        |        |
|--------|--------|
| Name:  | Date:  |
| Topic: | Class: |

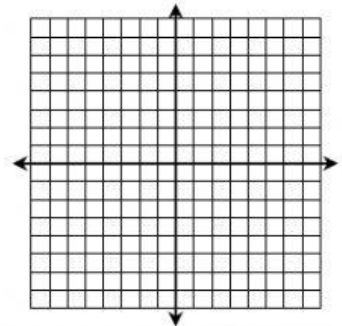
| Main Ideas/Questions                                        | Notes/Examples                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                         |                                                                                                    |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <h2 style="margin: 0;">Vertical &amp; Horizontal Lines</h2> | <b>Vertical Lines</b><br><p>A <b>vertical line</b> is written in the form <math>x = a</math>, where <math>a</math> represents the line's <math>x</math>-intercept.</p>  <p>The equation of the vertical line graphed above is _____</p> | <b>Horizontal Lines</b><br><p>A <b>horizontal line</b> is written in the form <math>y = a</math>, where <math>a</math> represents the line's <math>y</math>-intercept.</p>  <p>The equation of the <b>horizontal</b> line graphed above is _____</p> |                                                                                                    |
|                                                             | <p><b>**Remember, if the line intersects the <math>x</math>-axis, it's <math>x = a</math>, if a line intersects the <math>y</math>-axis, it's <math>y = a</math>.**</b></p>                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                         |                                                                                                    |
|                                                             | <p><b>Directions:</b> Write the equation of the line shown on the graph.</p>                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                         |                                                                                                    |
| <h2 style="margin: 0;">examples</h2>                        | <b>1.</b><br>                                                                                                                                                                                                                         | <b>2.</b><br>                                                                                                                                                                                                                                       | <b>3.</b><br> |
|                                                             | <b>4.</b><br>                                                                                                                                                                                                                         | <b>5.</b><br>                                                                                                                                                                                                                                       | <b>6.</b><br> |

**Directions:** Graph each equation.

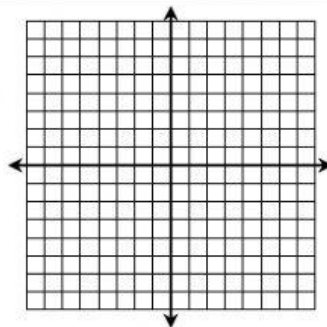
7.  $y = 5$



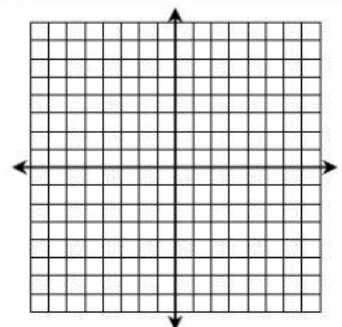
8.  $x = -1$



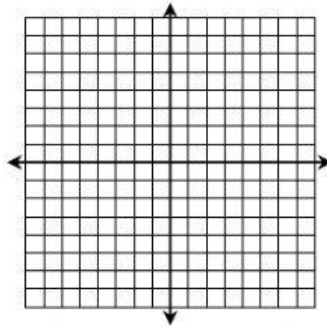
9.  $x = 3$



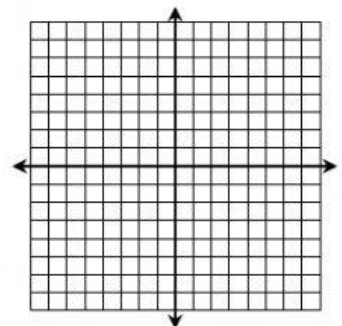
10.  $y = -2$



11.  $y = 4$



12.  $x = -7$



## QUESTIONS

13. What is the slope of the line  $y = 4$ ?

14. What is the slope of the line  $x = -2$ ?

15. What is the slope of the line  $x = 0$ ?

16. Which axis is  $y = -1$  parallel to?

17. Which axis is  $x = 4$  parallel to?

18. How does the graph of  $y = 3$  differ from  $y = 3x$ ? Graph both and explain.

