

Name:

Date:

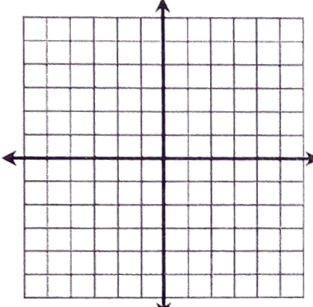
Topic:

Class:

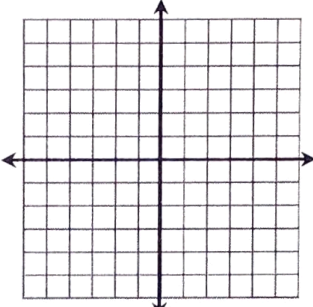
Main Ideas/Questions	Notes/Examples
GRAPHING LINEAR EQUATIONS (By Slope-Intercept)	Use the steps below to graph an equation using slope-intercept form:
	① Write the equation in _____.
	② Graph the _____ . This is always point (0, _____).
	③ Use the _____ of the line to create more points. Remember slope is rise/run!
④ _____ a line that extends through the points, placing an arrow on both ends.	

Directions: Graph each equation using the slope-intercept method.

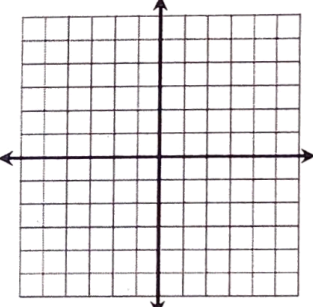
1. $y = -x + 5$



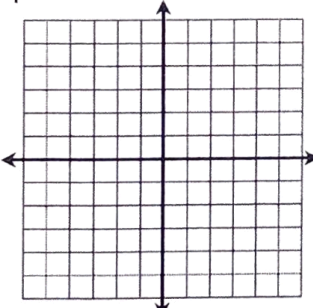
2. $y = -3x - 1$



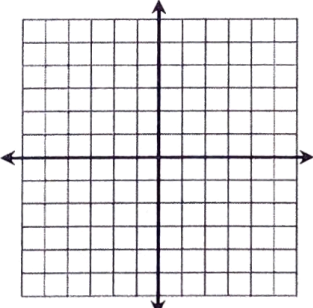
3. $y = \frac{2}{5}x + 2$



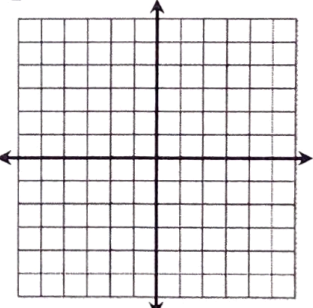
4. $y = -\frac{1}{4}x + 3$



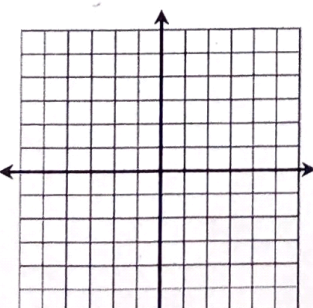
5. $y = 2x + 6$



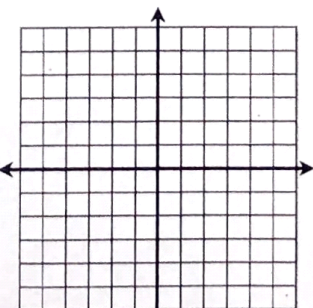
6. $y = -\frac{3}{2}x - 5$



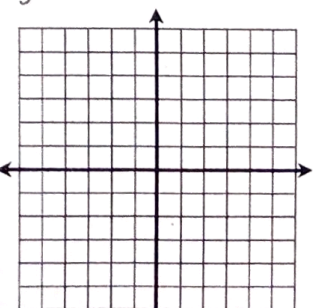
8. $y = -4x$

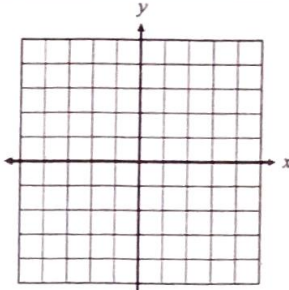
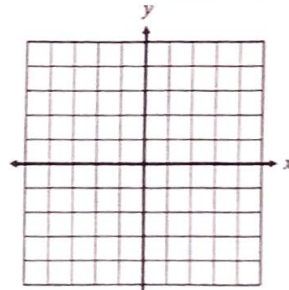


7. $y = -3 + 5x$

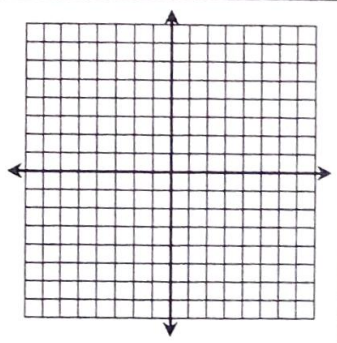


9. $y = 1 - \frac{6}{5}x$

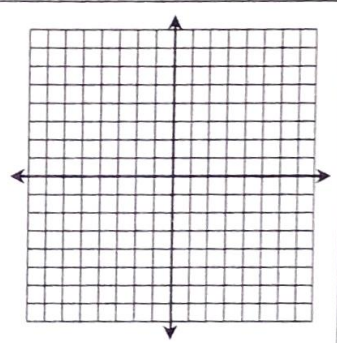


Main Ideas/Questions	Notes/Examples																				
Vertical & Horizontal Lines	Graph the points in the table and connect them to form a line.																				
	<table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>1</td><td>-5</td></tr> <tr><td>1</td><td>-2</td></tr> <tr><td>1</td><td>0</td></tr> <tr><td>1</td><td>4</td></tr> </tbody> </table> 	x	y	1	-5	1	-2	1	0	1	4	<table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>-3</td><td>-4</td></tr> <tr><td>1</td><td>-4</td></tr> <tr><td>2</td><td>-4</td></tr> <tr><td>5</td><td>-4</td></tr> </tbody> </table> 	x	y	-3	-4	1	-4	2	-4	5
x	y																				
1	-5																				
1	-2																				
1	0																				
1	4																				
x	y																				
-3	-4																				
1	-4																				
2	-4																				
5	-4																				
Equations of Vertical & Horizontal Lines	Vertical Lines	Horizontal Lines																			
	<p>A vertical line is written in the form $x = a$, where a represents the line's x-intercept.</p> <p>The equation of the vertical line graphed above is _____</p>	<p>A horizontal line is written in the form $y = a$, where a represents the line's y-intercept.</p> <p>The equation of the horizontal line graphed above is _____</p>																			
<p>**Remember, if the line intersects the x-axis, it's $x = a$, if a line intersects the y-axis, it's $y = a$.**</p>																					

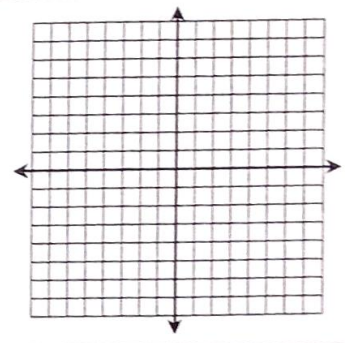
10. $y = 5$



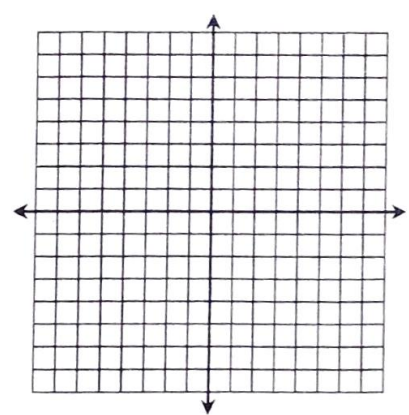
11. $x = -1$



12. $x = 3$



13. $5x - y = -3$



14. $4x + 3y = 21$

