Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples

GRAPHING LINEAR FUNCTIONS

(By Slope-Intercept)

Use the steps below to graph an equation using slope-intercept form:

❶ Graph the ***y*-intercept**. This is always point (0, b).

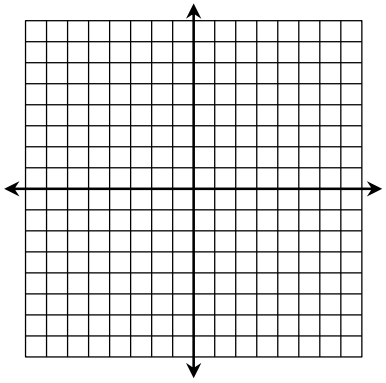
❷ Use the **slope** of the line to create more points. Remember slope is rise/run!

❸ Use a ruler to draw a line that extends through the points, placing an arrow on both ends.

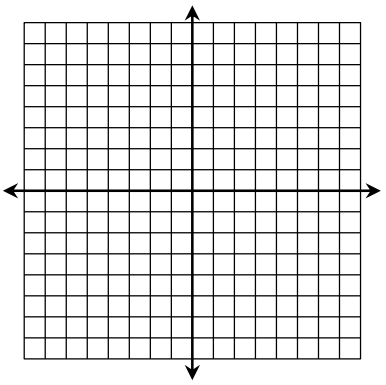
EXAMPLES

Graph each line using its slope and y-intercept!

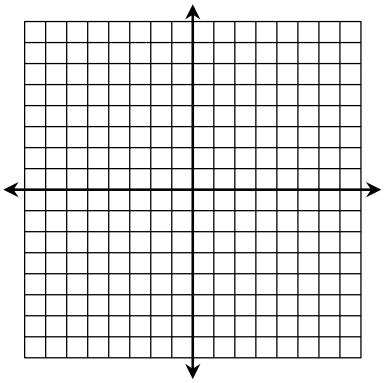
1. $y = \frac{2}{3}x + 1$



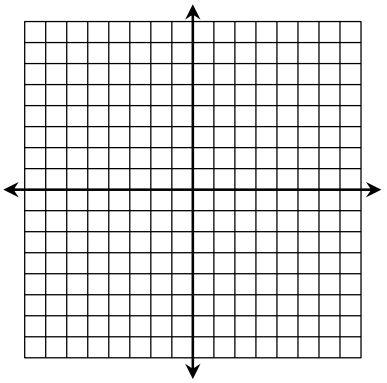
2. $y = \frac{3}{4}x - 2$



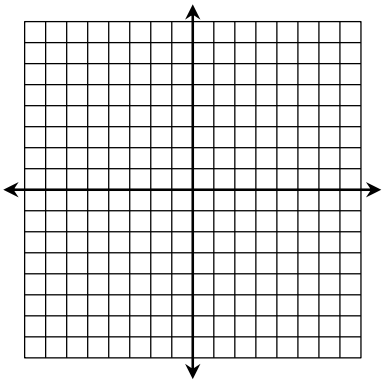
3. $y = 2x - 7$



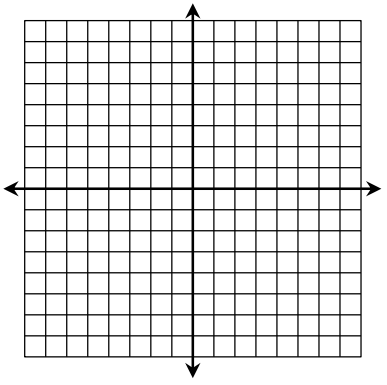
4. $y = -3x + 5$



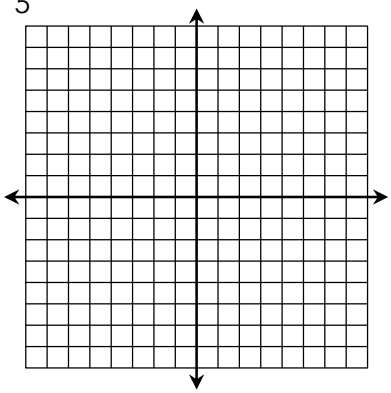
5. $y = \frac{7}{4}x - 1$



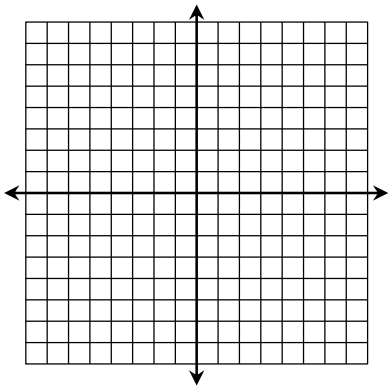
6. $y = x + 6$



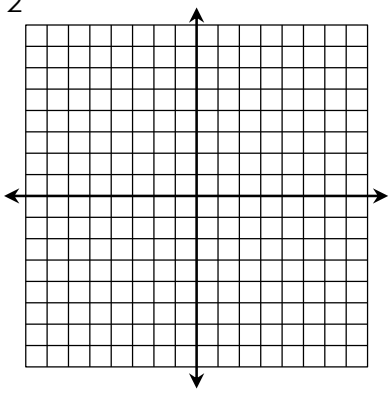
7. $y = -\frac{1}{5}x - 2$



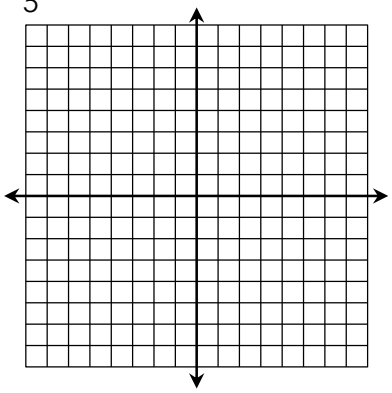
8. $y = 4x$



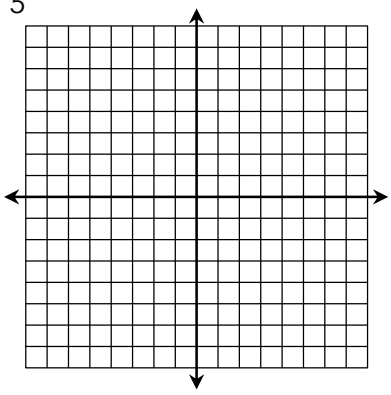
9. $y = -\frac{1}{2}x + 6$



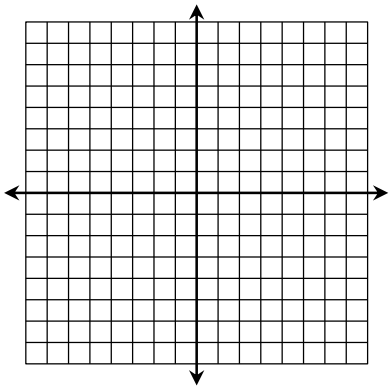
10. $y = -\frac{2}{5}x - 3$



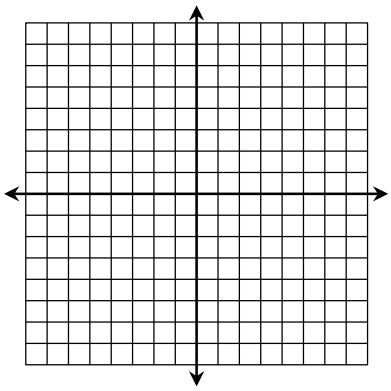
11. $y = \frac{6}{5}x - 2$



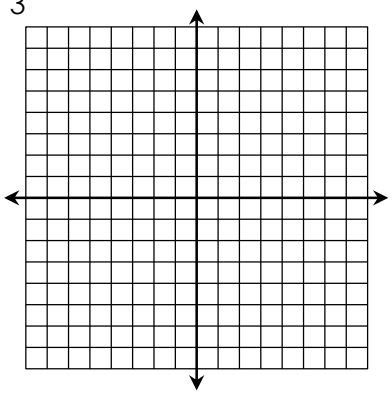
12. $y = -x + 4$



13. $y = -2x - 3$



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

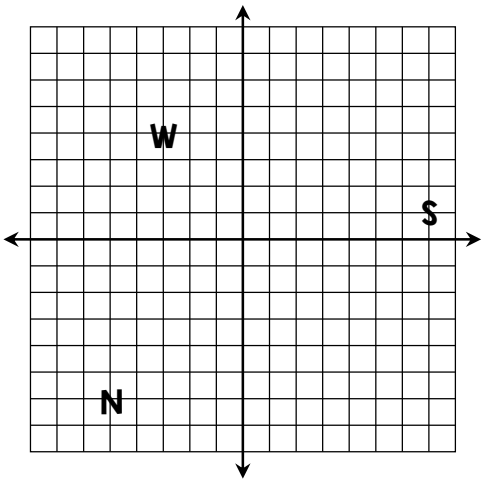


Why Couldn't the Pirate Play Cards?

Directions: Graph the equations in each set. Each line will cross a letter on the graph. Write the letter in each box below that corresponds to its question number.

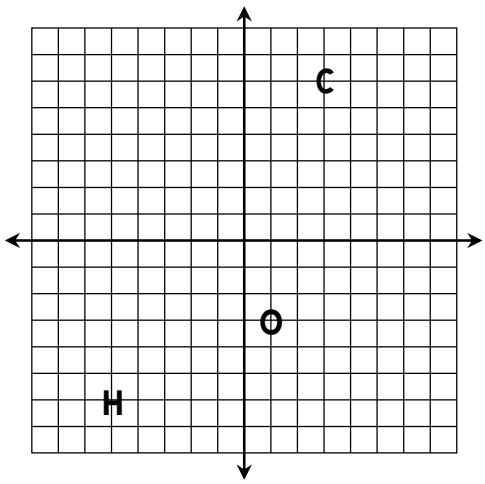
SET 1

1.	2.	3.
$y = 2x + 4$	$y = -\frac{5}{3}x - 1$	$y = x - 6$



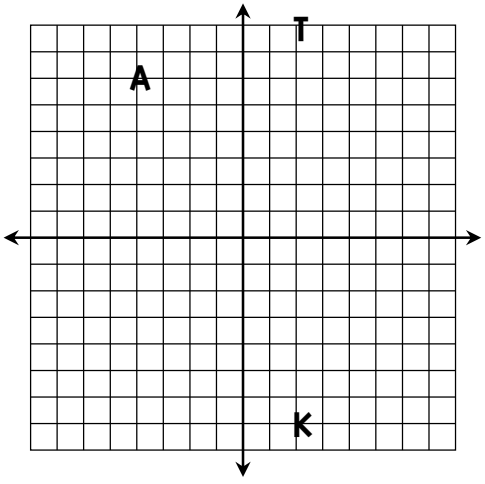
SET 2

4.	5.	6.
$y = -\frac{1}{3}x + 7$	$y = \frac{4}{5}x - 2$	$y = -5x + 2$



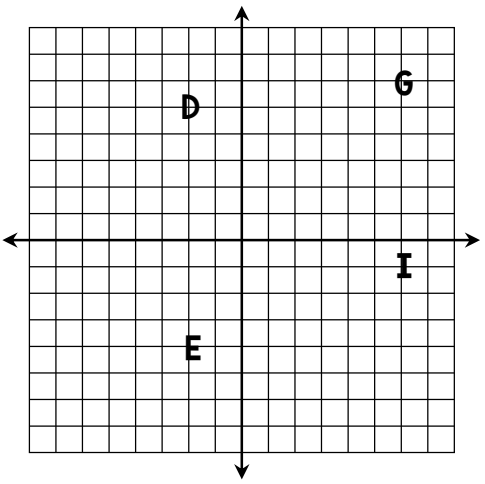
SET 3

7.	8.	9.
$y = -x + 2$	$y = -\frac{3}{2}x - 4$	$y = 4x$



SET 4

10.	11.	12.	13.
$y = \frac{1}{2}x - 3$	$y = -3x - 1$	$y = -\frac{4}{3}x + 7$	$y = x$



ANSWER:

5.	10.		2.	7.	3.		3.	12.	9.	9.	12.	1.	13.

6.	1.		9.	5.	10.		11.	10.	4.	8.	!