Graphing Using "Slope-Intercept" Form of a Line

Steps:

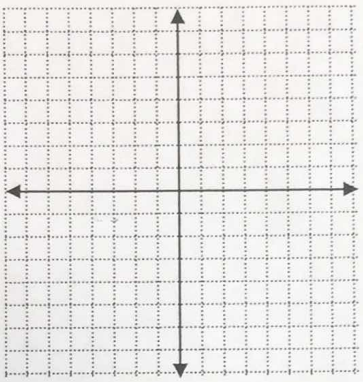
1. Identify the slope and the y-intercept.
2. Plot the y-intercept
3. Draw the slope triangle to find your next point.

Use the slope and y-intercept to graph the equation of the line.

1. $y = 2x - 1$

slope:_____

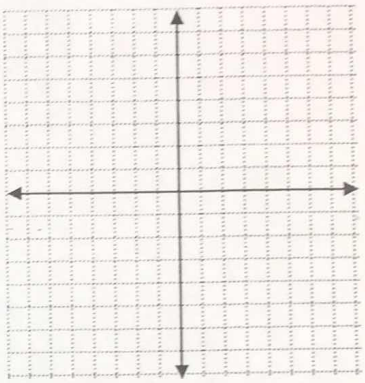
y-int:_____



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

slope:_____

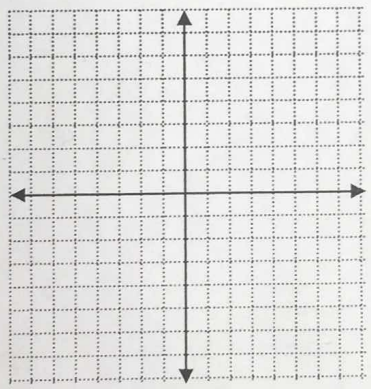
y-int:_____



3. $y = 2x - 4$

slope:_____

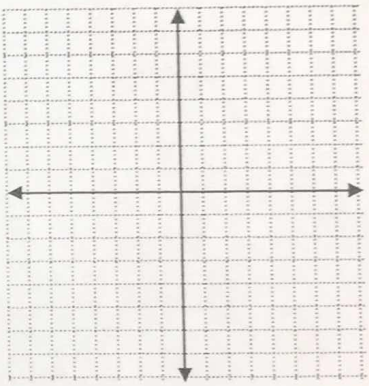
y-int:_____



4. $y = 4/3x + 2$

slope:_____

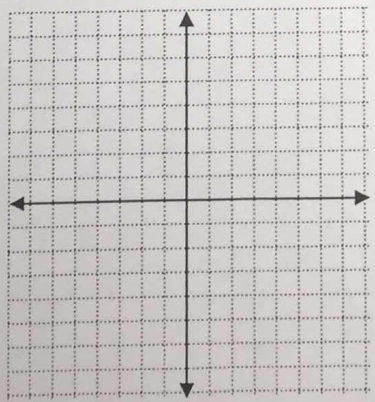
y-int:_____



5. $y = 3$

slope:_____

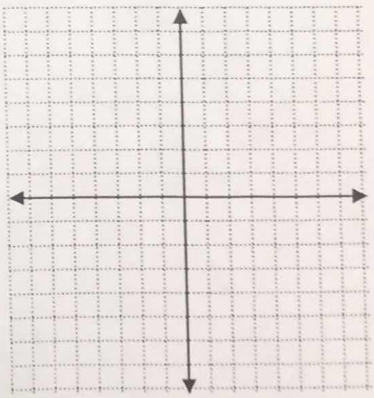
y-int:_____



6. $x = -5$

slope:_____

y-int:_____

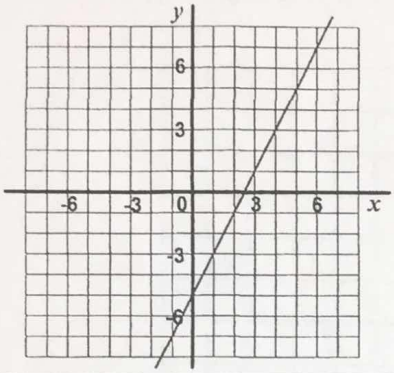


Mathematics 9

Finding Equations of Lines

Date:

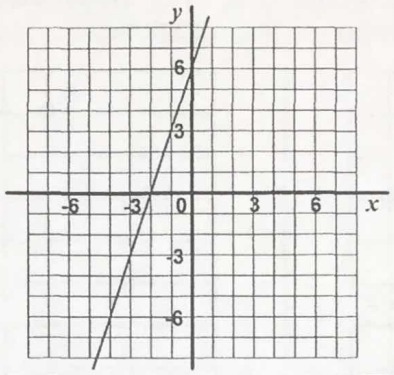
1.



$m =$	$b =$

Equation of line:

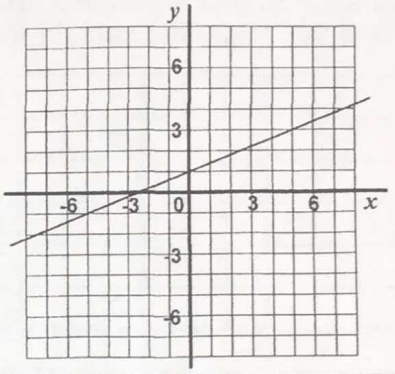
2.



$m =$	$b =$

Equation of line:

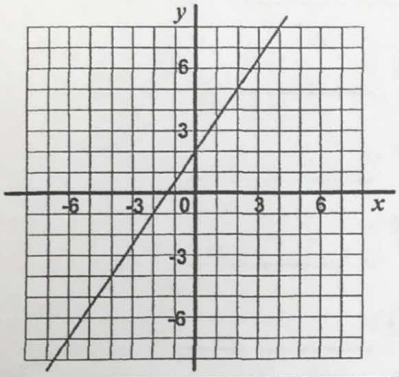
3.



$m =$	$b =$

Equation of line:

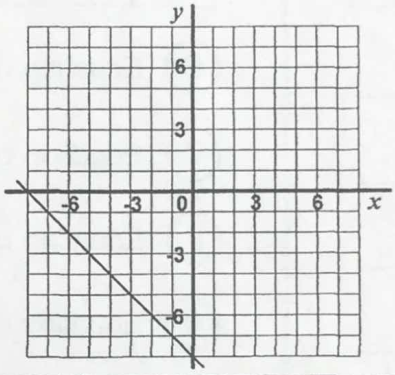
4.



$m =$	$b =$

Equation of line:

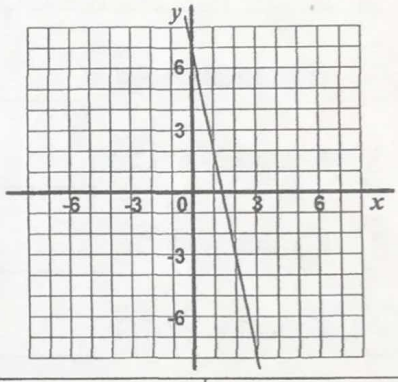
5.



$m =$	$b =$

Equation of line:

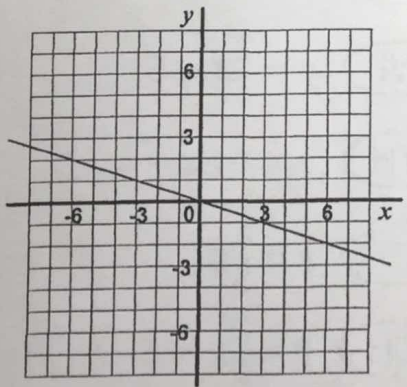
6.



$m =$	$b =$

Equation of line:

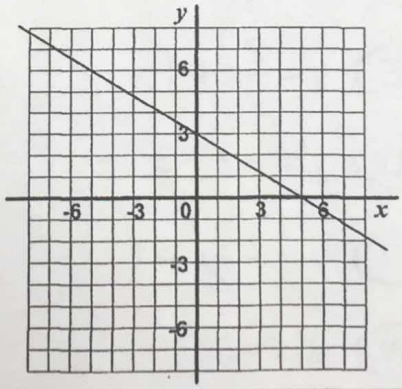
7.



$m =$	$b =$

Equation of line:

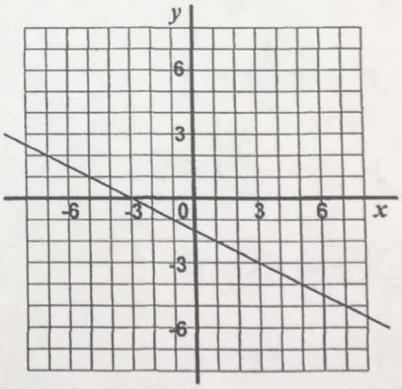
8.



$m =$	$b =$

Equation of line:

9.



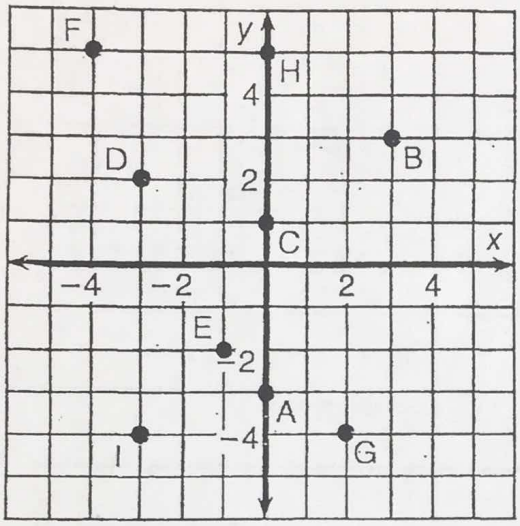
$m =$	$b =$

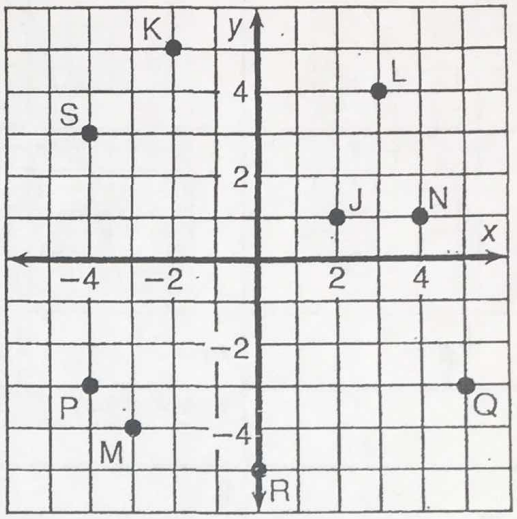
Equation of line:

5.7: Plotting & Naming Lines C Pg 52-54.

What Did the Ape Think of the Grape's House?

For each exercise, draw the line indicated and write its equation. Find your answer in the answer section and notice the two letters next to it. Print these letters in the two boxes at the bottom of the page that contain the number of that exercise.





(1) Equation of $\overleftrightarrow{AB}$ _____

(2) Equation of $\overleftrightarrow{CB}$ _____

(3) Equation of $\overleftrightarrow{DE}$ _____

(4) Equation of $\overleftrightarrow{FG}$ _____

(5) Equation of $\overleftrightarrow{HI}$ _____

(6) Equation of $\overleftrightarrow{JK}$ _____

(7) Equation of $\overleftrightarrow{LM}$ _____

(8) Equation of $\overleftrightarrow{NS}$ _____

(9) Equation of $\overleftrightarrow{PQ}$ _____

(10) Equation of $\overleftrightarrow{RQ}$ _____

Answers:

(DE) $y = -\frac{1}{4}x + 2$	(TT) $y = \frac{2}{5}x$	(EA) $y = -2x + 3$
(SA) $y = \frac{4}{3}x - 1$	(NE) $y = \frac{2}{3}x + 1$	(VI) $y = \frac{2}{5}x - 5$
(TH) $y = -\frac{3}{2}x + 2$	(OU) $y = -x + 3$	(TH) $y = -2x - 4$
(AS) $y = 2x - 3$	(GH) $y = -\frac{3}{2}x - 1$	(TI) $y = \frac{4}{3}x$
(HE) $y = 3x + 5$	(TW) $y = -3$	(SH) $y = \frac{2}{3}x + 5$

5	5	3	3	6	6	4	4	7	7	9	9	1	1	8	8	10	10	2	2

OBJECTIVE 5–I: To find an equation of a line given two points on the line (using the graph).

