

Name \_\_\_\_\_

Date \_\_\_\_\_

# Graphing Using Slope-Intercept Form

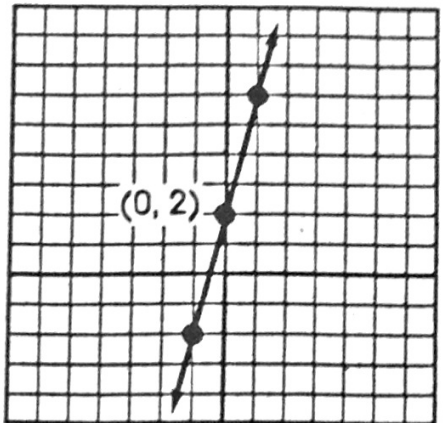
Graph from the slope-intercept form:  $y = mx + b$      $m = \text{slope}$      $b = \text{y-intercept}$

$y = 4x + 2$

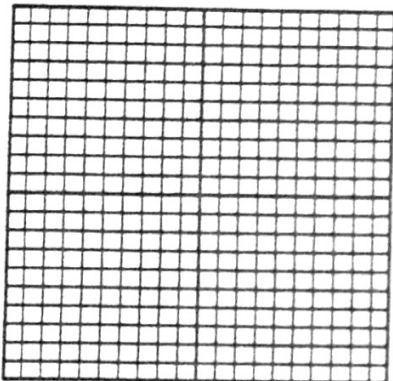
1) Plot y-intercept.  
 $b = 2 \implies (0, 2)$

2) Find other points using slope.  
 $m = 4 \implies \frac{4}{1} \text{ or } \frac{-4}{-1}$

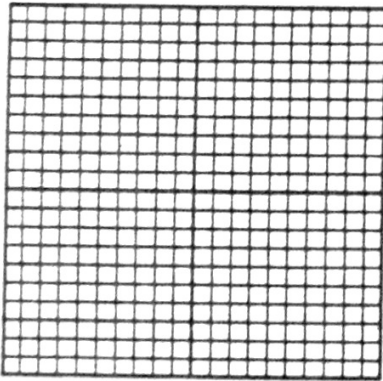
3) Connect points.



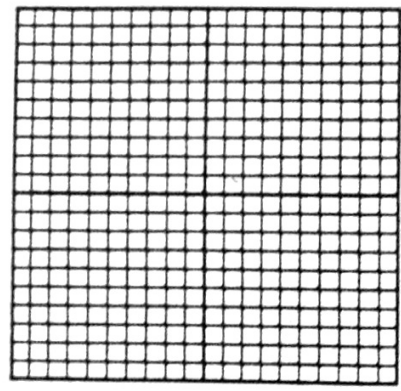
1.  $y = 2x - 4$



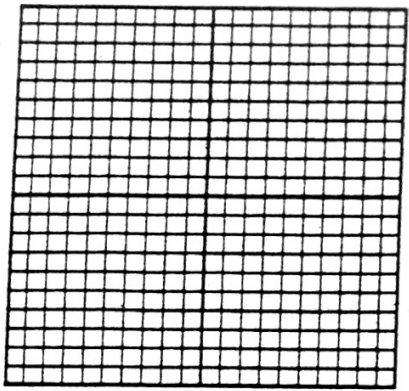
2.  $3x - y = 7$



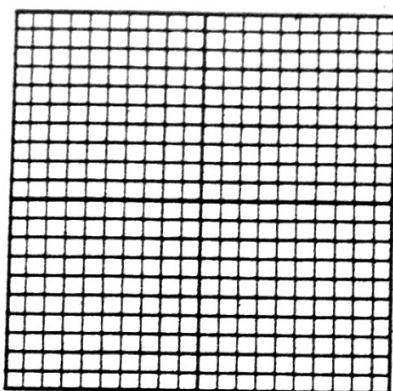
3.  $2x + 3y = 6$



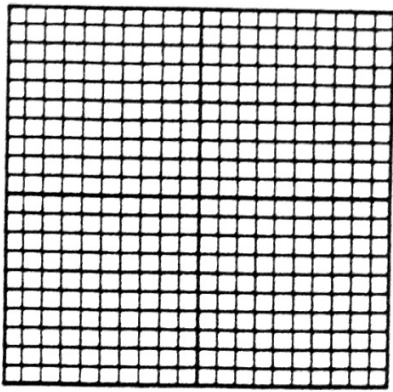
4.  $y = -\frac{2}{3}x + 1$



5.  $x - 4y + 8 = 0$



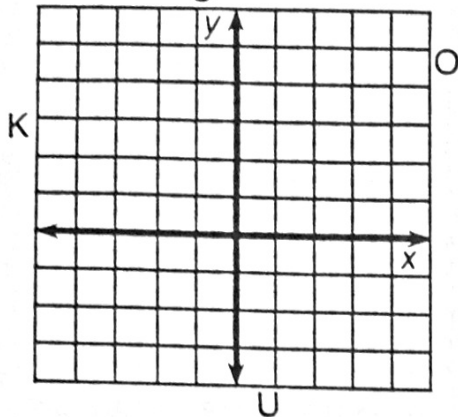
6.  $6x - 5y = 15$



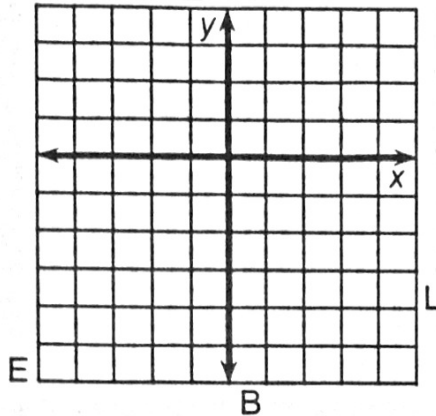
# Whom Should You See at the Bank If You Need To Borrow Money?

Use the slope and  $y$ -intercept to graph each equation below. The graph, if extended, will cross a letter. Print this letter in each box that contains the number of that exercise.

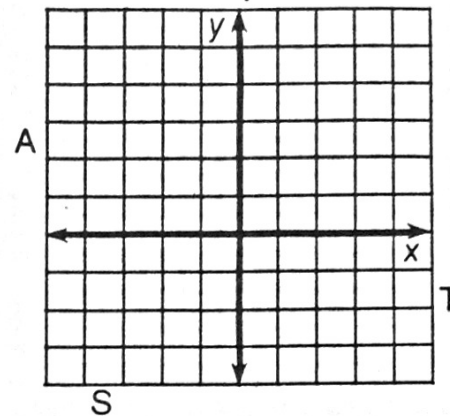
①  $y = \frac{2}{3}x + 1$



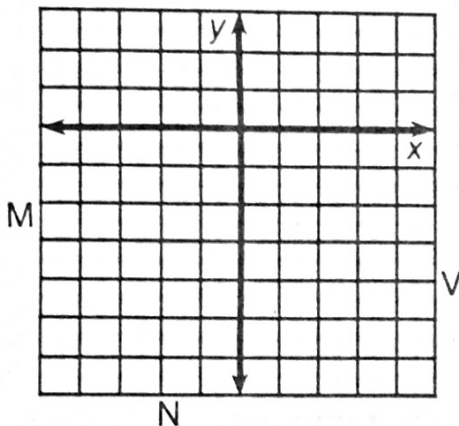
②  $y = \frac{1}{2}x - 3$



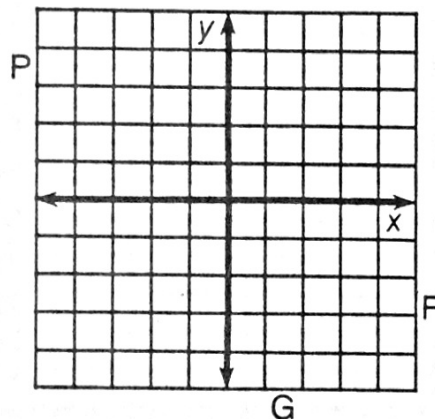
③  $y = -\frac{3}{4}x + 2$



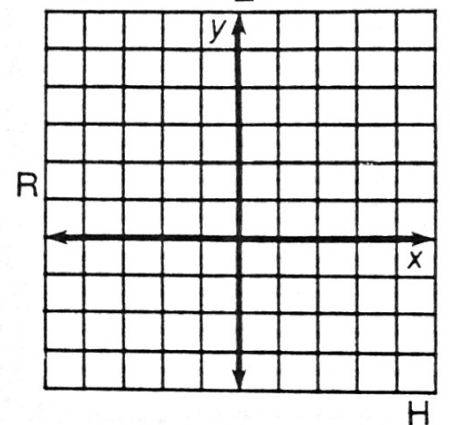
④  $y = 2x - 4$



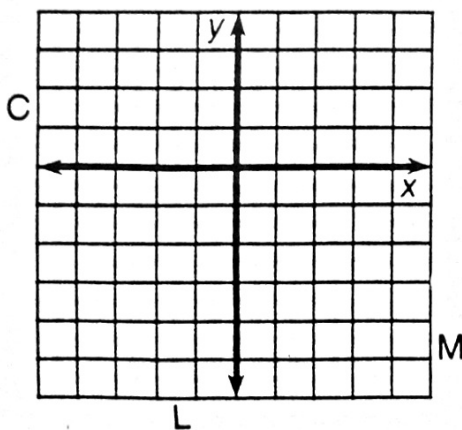
⑤  $y = -3x - 1$



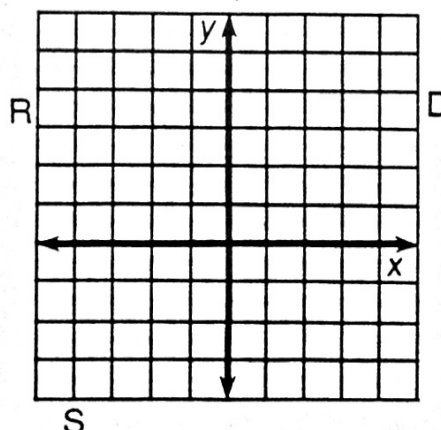
⑥  $y = -\frac{3}{2}x + 3$



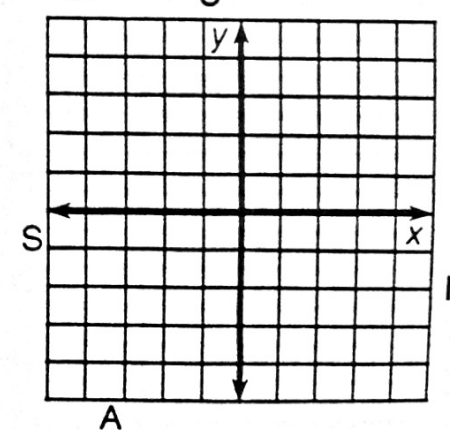
⑦  $y = 4x - 2$



⑧  $y = -\frac{1}{4}x + 2$



⑨  $y = \frac{5}{3}x$



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