

Topic: Graphing linear equations

Question: In the slope-intercept form of the equation of a line, which letter represents the slope?

$$y = mx + b$$

Answer choices:

A y

B x

C b

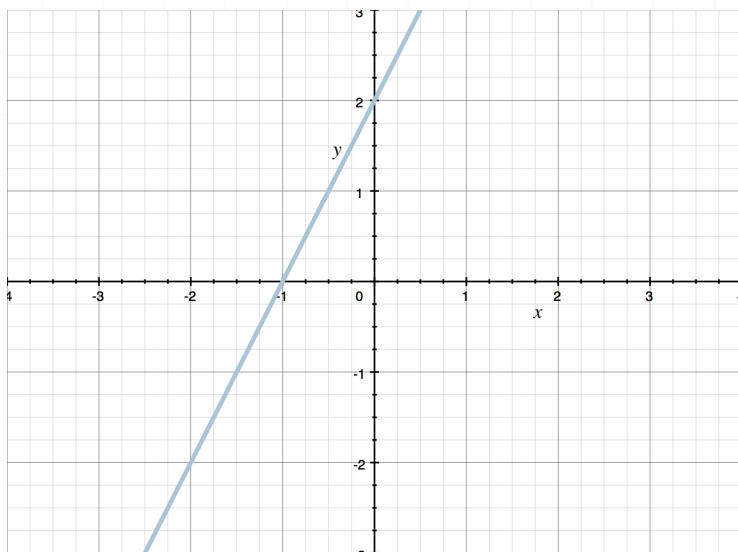
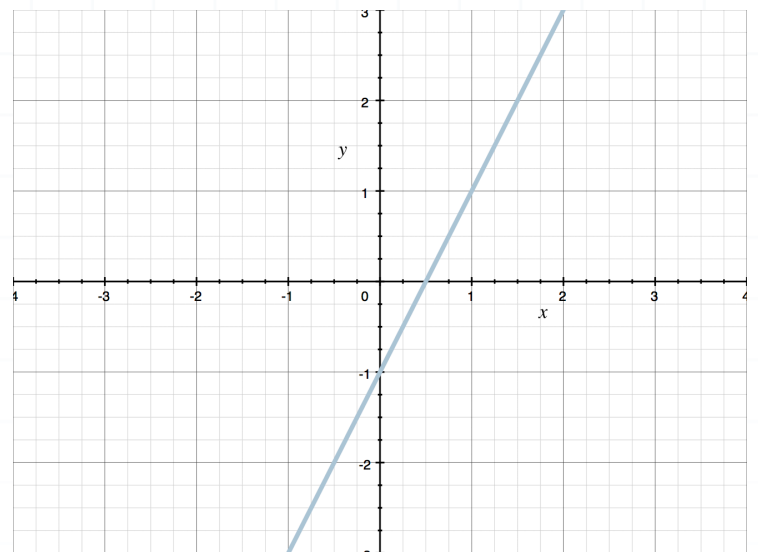
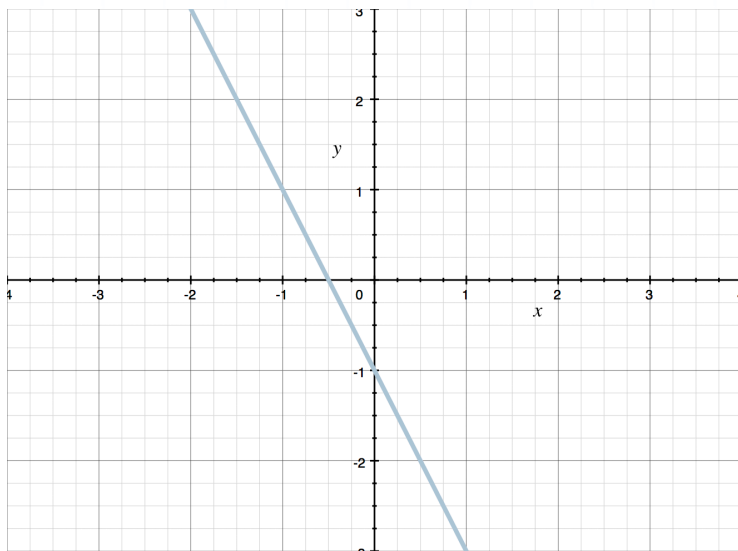
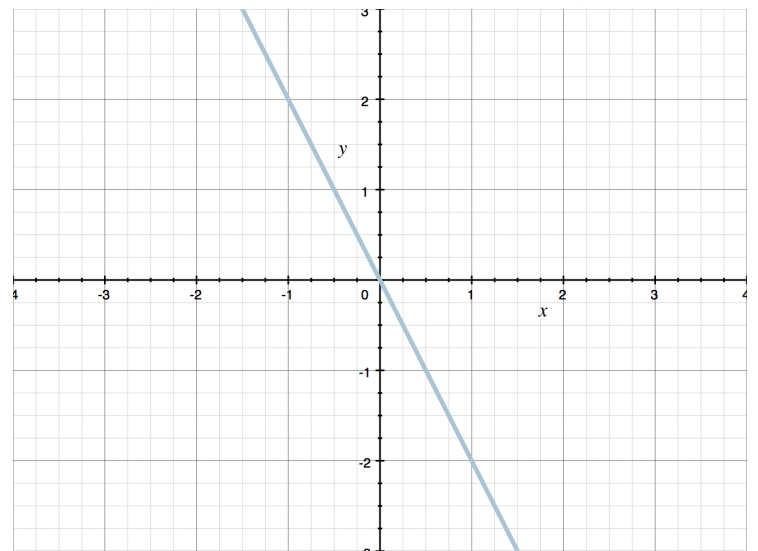
D m



Solution: D

m is the letter that represents the slope. x and y together are the coordinates of points on the line, and b is the y -coordinate of the point where the graph intersects the y -axis.

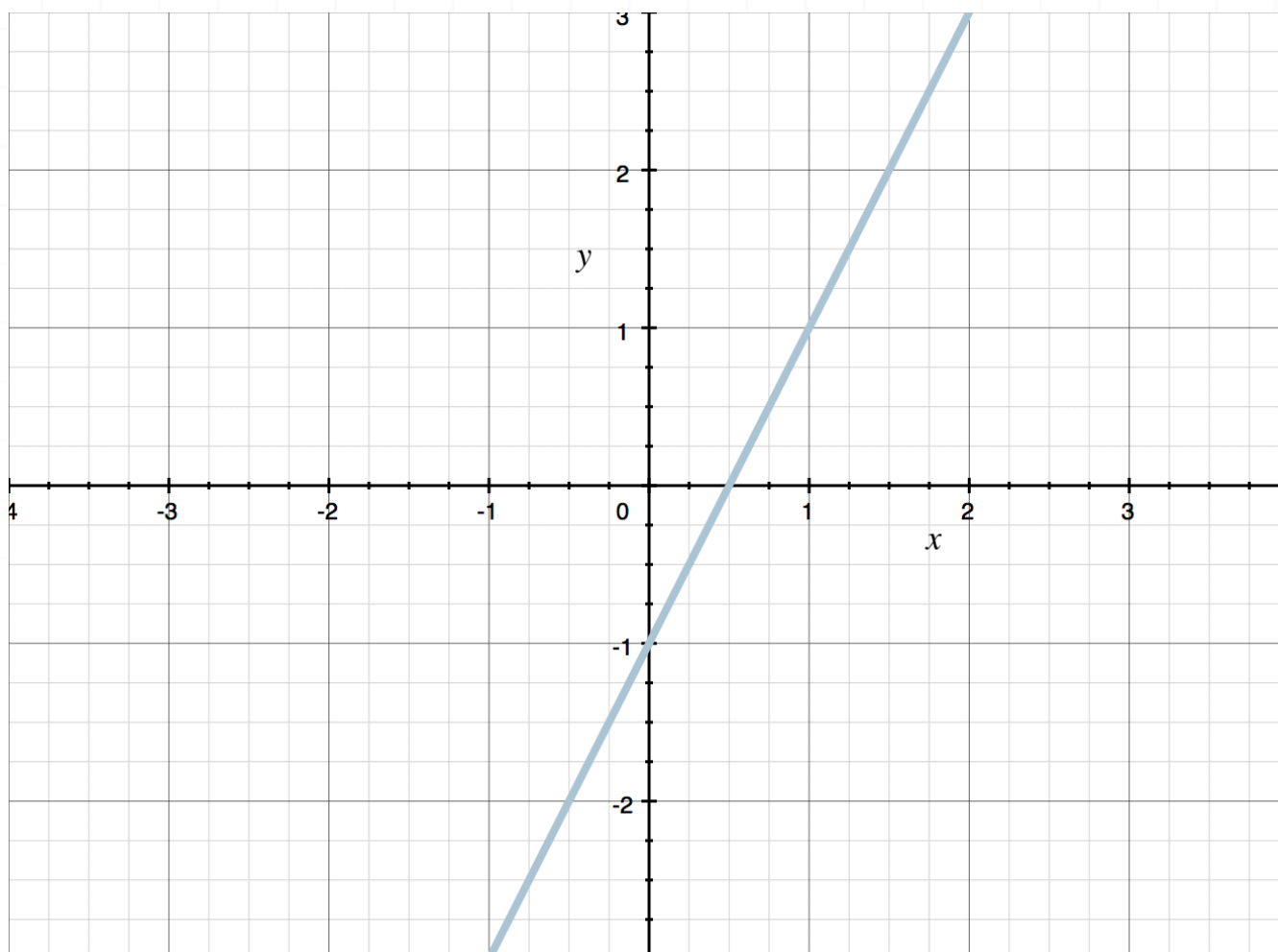


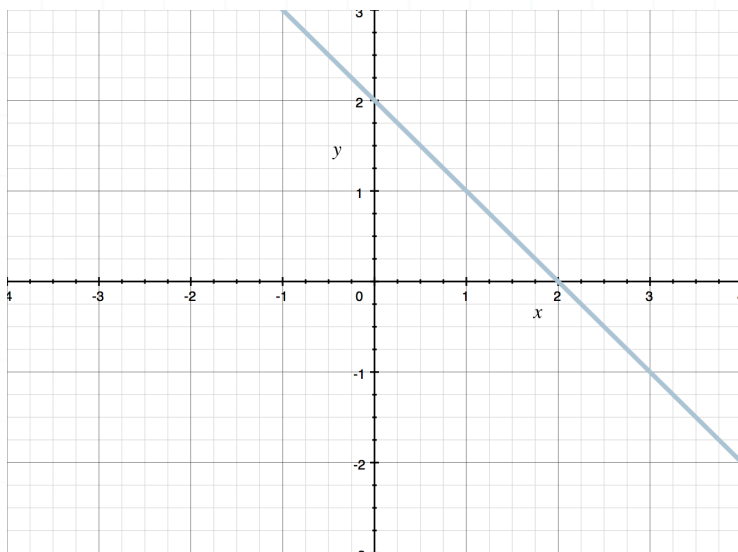
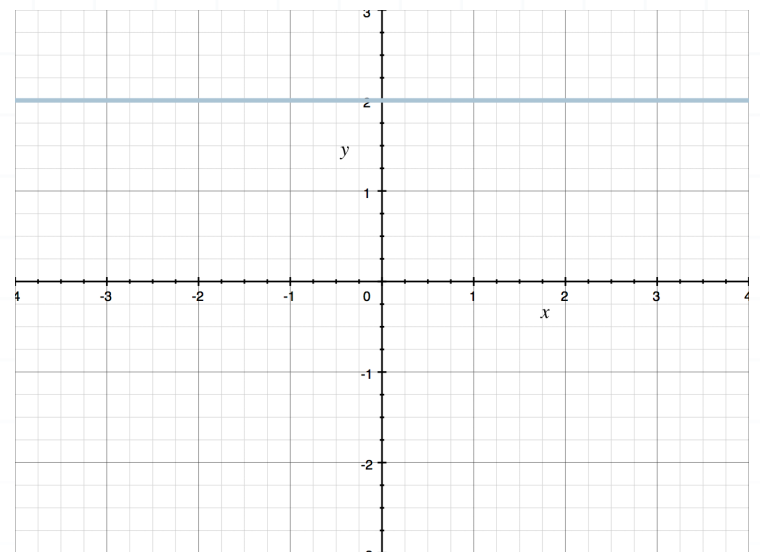
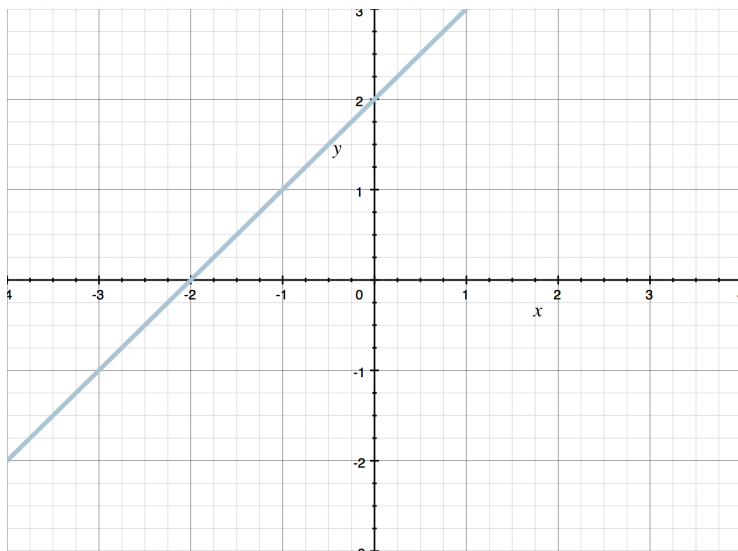
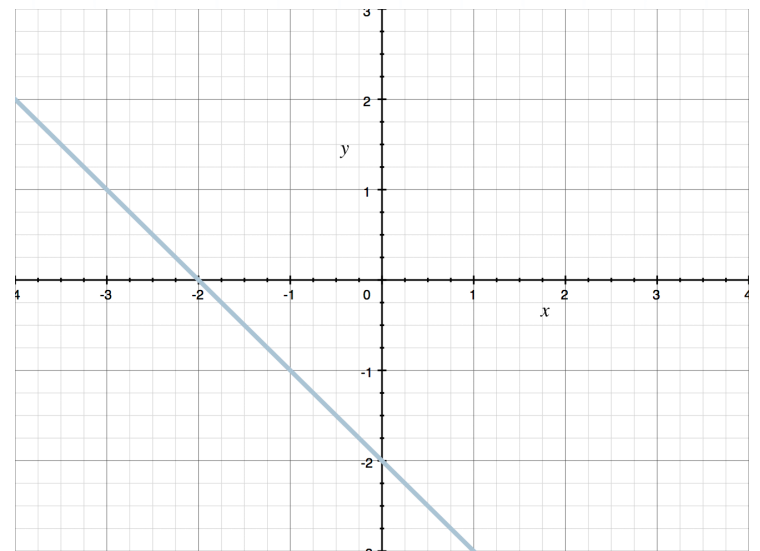
Topic: Graphing linear equations**Question:** Choose the graph of $y = 2x - 1$.**Answer choices:****A****B****C****D**

Solution: B

The linear equation is already in slope-intercept form, so we can see that the slope is $m = 2$ and the y -intercept is $b = -1$.

Since the slope is positive, we know that the line will lean to the right. The graph is



Topic: Graphing linear equations**Question:** Choose the graph of $x + y = 2$.**Answer choices:****A****B****C****D**

Solution: A

The linear equation isn't already in slope-intercept form, so we'll subtract x from both sides in order to solve for y .

$$x + y = 2$$

$$x - x + y = 2 - x$$

$$y = -x + 2$$

With the equation in slope-intercept form, we can identify that the slope is $m = -1$ and the y -intercept is 2.

Since the slope is negative, we know that the line will lean to the left. The graph is

