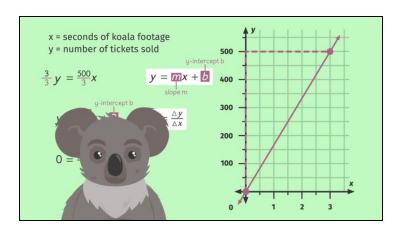
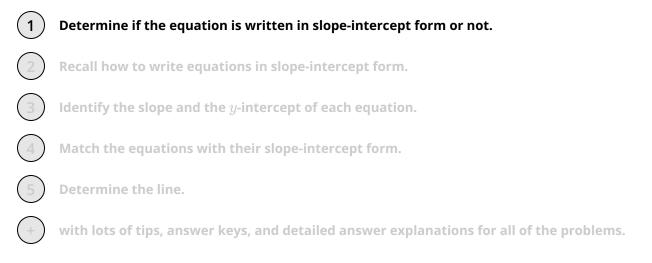
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The Slope of the Line y=mx+b





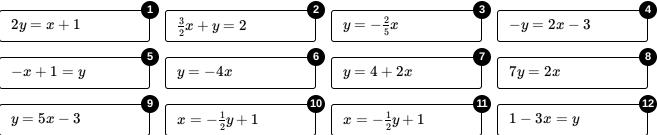


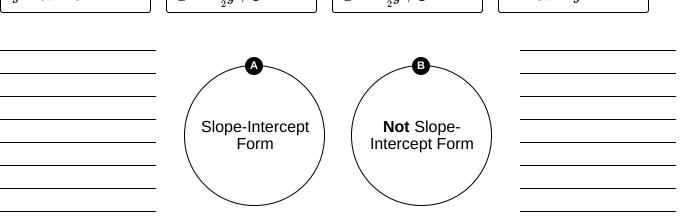
The complete package, **including all problems**, **hints**, **answers**, **and detailed answer explanations** is available for all sofatutor.com subscribers.



Determine if the equation is written in slope-intercept form or not.

Assign the equations to either slope-intercept form or not slope-intercept form.





Hints for solving these problems



Determine if the equation is written in slope-intercept form or not.

Hint #1

Slope-intercept form is y = mx + b.

Hint #2

Slope-intercept form can also look like y = b + mx, mx + b = y or b + mx = y.

Hint #3

If there is no y-intercept b, slope-intercept form will look like y = mx.





Answers and detailed answer explanations for these problems



Determine if the equation is written in slope-intercept form or not.

Answer key: A: 3, 5, 6, 7, 9, 12 // B: 1, 2, 4, 8, 10, 11

Slope-intercept form is y = mx + b. However, the terms can be rearranged and still be in slope-intercept form. The following equations are 4 different ways to represent slope-intercept form.

- y = mx + b: the original slope-intercept form
- y = b + mx: the terms on the right side are switched
- mx + b = y: the equation is flipped so that y is on the right
- b+mx=y: the equation is flipped with y on the right, and the mx and b terms are switched If there is no y-intercept, the equation will look like y = mx or mx = y.

The following equations are in slope-intercept form because they match one of the equations listed above.

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

The following equations are **not** in slope-intercept form because they do not match any of the slopeintercept form equations above.

- $x = -\frac{1}{2}y + 1$
- $\frac{3}{2}x + y = 2$
- 2y = x + 1
- $x = -\frac{1}{2}y + 1$
- -y=2x-3
- 7y = 2x

