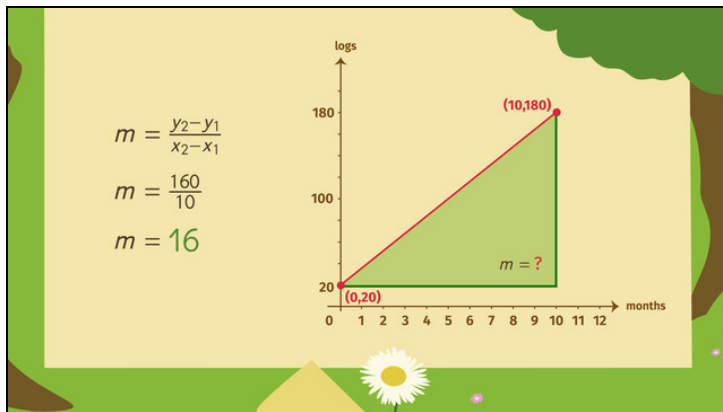




Printable Worksheets from [sofatutor.com](https://www.sofatutor.com)

Point-Slope Form



- 1 Decide which equation is in point-slope form.
- 2 Describe the point-slope form and the slope formula.
- 3 Determine the slope of the equation.
- 4 Determine the slope and the coordinates needed for the point-slope form.
- 5 Decide which equation corresponds to which line.
- 6 Determine how many logs each beaver business has at the end of the year.
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.



The complete package, including all problems, hints, answers, and detailed answer explanations is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.



Decide which equation is in point-slope form.

Choose the correct equation.

A

$$y = m(x - x_1)$$

☐

B

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

☐

C

$$y - y_1 = m(x - x_1)$$

☐

D

$$y - x_1 = m(x - x_1)$$

☐

E

$$y - x_1 = m(x - y_1)$$

☐

F

$$x - x_1 = m(y - y_1)$$

☐



Hints for solving these problems

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of 6

Decide which equation is in point-slope form.

Hint #1

In order to solve the point-slope form we need:

- one point
 - the slope.
-

Hint #2

Any point in the coordinate system has

- an x-coordinate and
 - a y-coordinate.
-

Hint #3

The slope has to be multiplied by x .

Hint #4

There's also the slope-intercept form:

$$y = mx + b.$$



Answers and detailed answer explanations for these problems

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of 6

Decide which equation is in point-slope form.

Answer key: C

The point-slope form can be solved with

- a **point** (x_1, y_1) and
- the **slope** m .

$$y - y_1 = m(x - x_1).$$