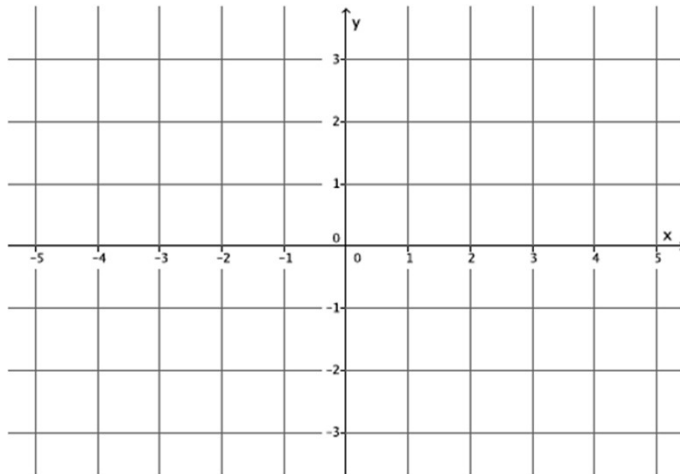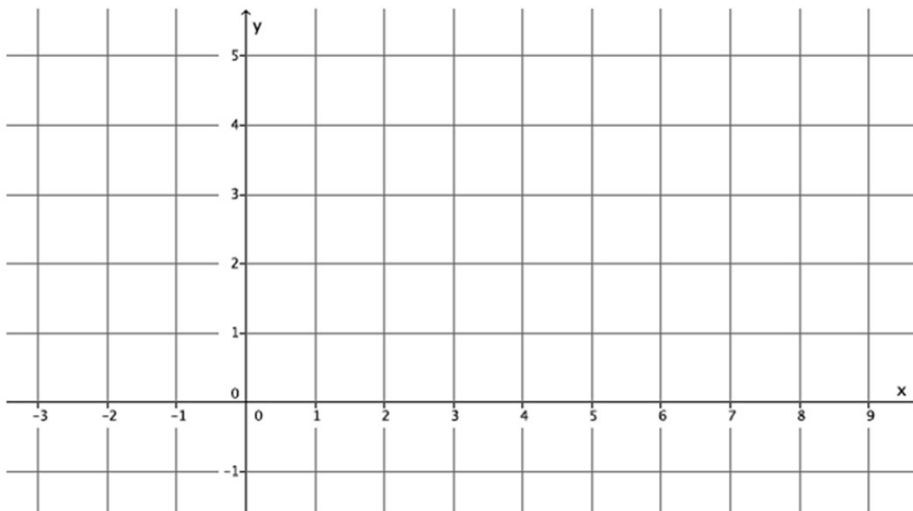# Slope from Equation

1. The equation $y = 1x + 0$ can be simplified to $y = x$.
a) Graph the equation $y = x$

b) Graph the known point, and then use the slope to find a second point before drawing the line.

2. Graph the point $(0, 2)$.

a) Find another point on the graph using the slope, $m = \frac{2}{7}$.

b) Connect the points to make the line.

c) Draw a different line that goes through the point $(0, 2)$ with slope $m = \frac{2}{7}$.
What do you notice?

d) Draw a different line that goes through the point $(0, 2)$ with slope $m = \frac{2}{7}$.
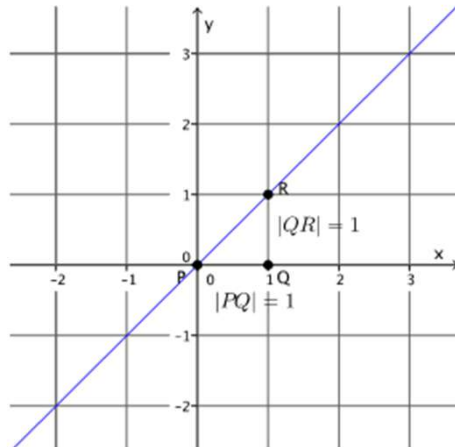What do you notice?

Slope from Equation

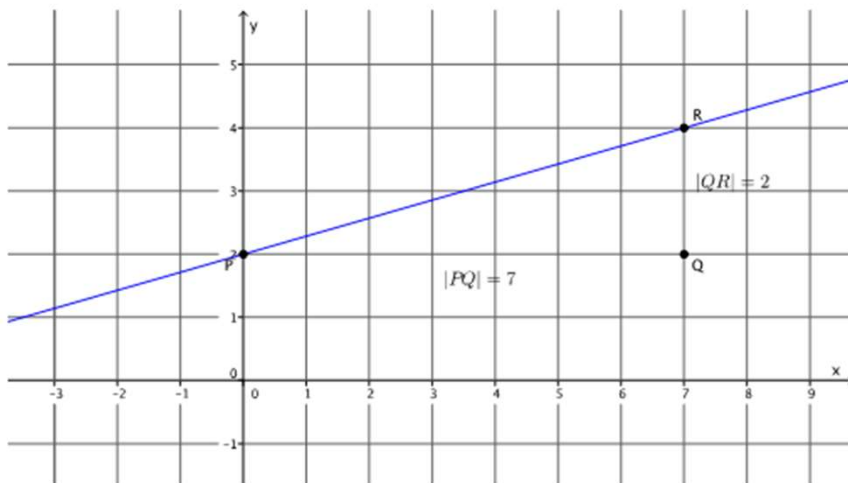1. The equation $y = 1x + 0$ can be simplified to $y = x$.
a) Graph the equation $y = x$

   The slope is $m = 1$, and the y-intercept point is $(0, 0)$.

b) Graph the known point, and then use the slope to find a second point before drawing the line.

2. Graph the point $(0, 2)$.

a) Find another point on the graph using the slope, $m = \frac{2}{7}$.

b) Connect the points to make the line.

c) Draw a different line that goes through the point $(0, 2)$ with slope $m = \frac{2}{7}$. What do you notice?

d) Draw a different line that goes through the point $(0, 2)$ with slope $m = \frac{2}{7}$. What do you notice?

   Only one line can be drawn through the given point with the given slope.

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