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Slope-Intercept Form of a Line

The equation of a non-vertical line in slope-intercept form is

$$y = mx + b$$

where m is the slope and b is the y -intercept.

Example:

$$y = mx + b \Rightarrow y = -4x + 4$$

Point(0,b)

Use the sliders to see how the equation and subsequent plot change.

$m = -4$

$b = 4$

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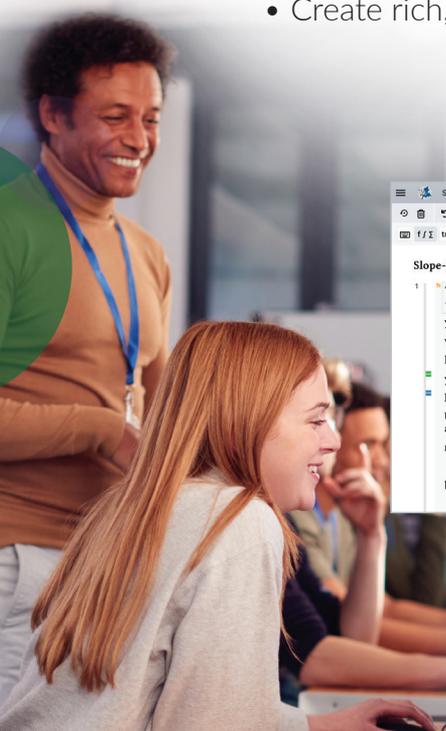
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Solve:

$$\begin{array}{l} 2x + 3 = 4x + 5 \\ 2x = 4x + 2 \\ -2x = 2 \\ x = -1 \end{array}$$

Check:

$$2x + 3 = 4x + 5$$

$x = -1$ **Solution**



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