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- Explore concepts
- Solve problems
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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:

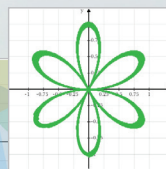
$$y = mx + b \Rightarrow y = -4x + 4$$

Point(0,b)

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

$m = -4$

$b = 4$



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Enter the code **PCGSU-2022**

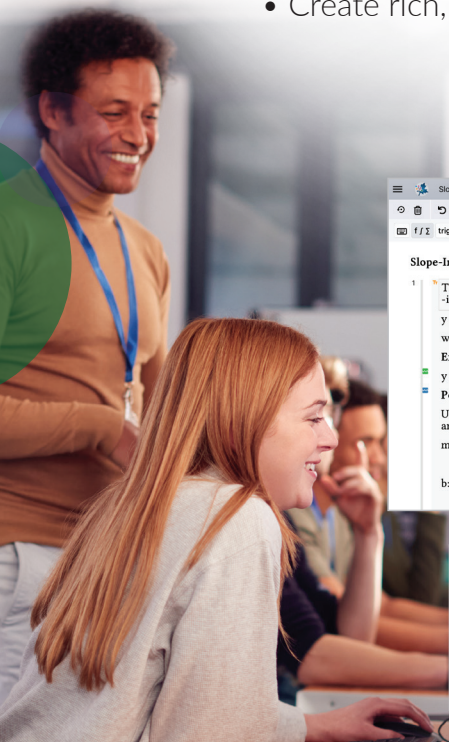
*Must be claimed by March 31, 2023.



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The screenshot displays the Maple Learn web application. At the top, there's a navigation bar with icons for home, search, and user profile, along with a 'GET PREMIUM' button. The main content area is titled 'Slope-Intercept Form of a Line'. It includes a text box explaining the form $y = mx + b$, where m is the slope and b is the y-intercept. An example shows $y = mx + b \Rightarrow y = -4x + 4$ with a point $(0, b)$. Below this, there are sliders for m (set to -4) and b (set to 4). To the right, a 2D coordinate plane shows a green line passing through the y-intercept (0, 4). Below the sliders, a 3D plot shows a paraboloid. At the bottom, a 'Solve:' section shows the steps to solve $2x + 3 = 4x + 5$, resulting in $x = -1$. A 'Check:' section verifies the solution by substituting $x = -1$ into the equation, showing $2(-1) + 3 = 4(-1) + 5$, which simplifies to $-2 + 3 = -4 + 5$, resulting in $1 = 1$, confirming the solution.



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