



Stacking Paper

REAL WORLD MATH

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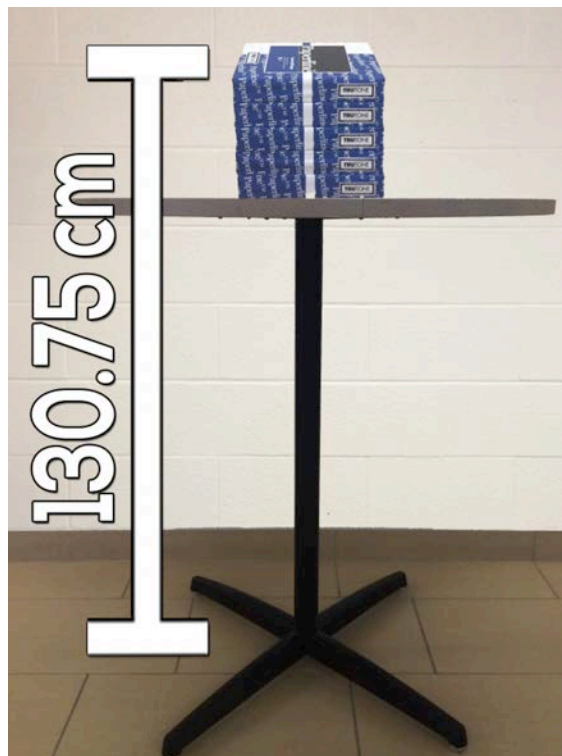
Recall: Stacking Paper

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How can we find the equation of this situation given only these two images?





Sec. 5.5 - Equations Given Slope and a Point

LESSON

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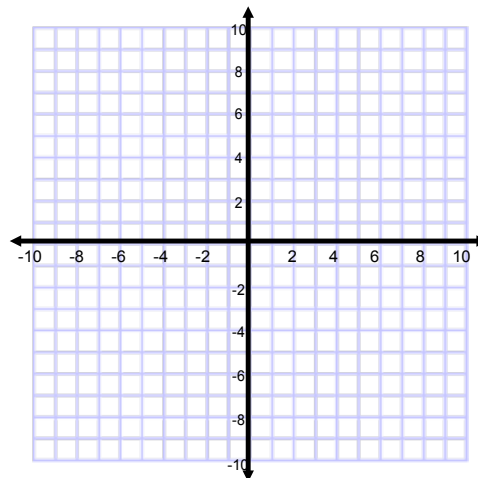
- You can find the **equation of a line** if you know the **slope** and one other **point**.

Steps:

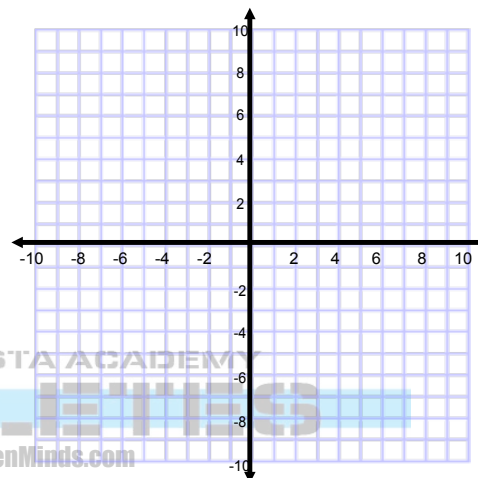
1. Substitute the given **slope** for ' m ' and the coordinates of the **point** for (x, y) in the equation $y = mx + b$.
2. Solve for ' b ' which is the only unknown variable.
3. Substitute the values of m and b into **slope/y-intercept** form, $y = mx + b$



Example #1: Find the equation of a line with a **slope** of **2** and passes through point $(1, 5)$.



Example #2: Find the equation of the line **parallel** to $x - 2y - 4 = 0$ that passes through the point $(2, -5)$.



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Extension

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