

Algebra 1
Interpreting Slope-Intercept Form

Interpreting Slope-Intercept Form | A1-U05-P05
96 problems · Four activity formats

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Topic focus
Across 96 tasks this topic asks for identified or interpreted slope and vertical intercept with justification.
8 PDFs and a README; 55 buyer pages.

Algebra 1

Interpreting Slope-Intercept Form

Name: _____ Date: _____ Class: _____

Answer each question and record the matching bank letter. Give exact values. A value without its unit is not a complete answer.

Give the exact y-intercept point for $y = (\frac{3}{5})x + \frac{7}{2}$. _____ Bank label: _____	An account model is $B = 25m - 40$ dollars after m months. Interpret the rate and the signed zero-month value. _____ Bank label: _____
Locate the vertical intercept of $y = -(\frac{4}{7})x - \frac{5}{3}$ using exact coordinates. _____ Bank label: _____	A walker has $d = t$, with d in meters and t in seconds. Explain the implicit m and b. _____ Bank label: _____
Write the y-axis crossing of $y = 0.8x + 2.5$ as (x, y). _____ Bank label: _____	For $y = 5 - 2x$, an annotation says $m = 5$ and $b = -2$. Audit the term roles. _____ Bank label: _____
What intercept point follows from $b = -3.4$ in $y = -1.2x - 3.4$? _____ Bank label: _____	A graph for $y = 7x$ marks the origin and $(1, 7)$, but annotates $m = 7$ and vertical intercept $(0, 7)$. Which part is inconsistent? _____ Bank label: _____

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Evaluate the supplied statement or method. Say whether it is correct, repair it if it is not, and verify the result exactly. Not every prompt contains an error.

The exact graph for $y = -x$ marks $(0, 0)$, $(3, -3)$ and is annotated $m = -1$, $b = 0$. Verify the labels.

A table header for $y = -0.6x - 1.4$ lists rate 0.6 and start 1.4. Audit all signs and translate the start to a point.

A horizontal graph through $(0, 5)$, $(4, 5)$ is labeled $m = 5$ and $b = 5$ for $y = 5$. Audit the labels.

A student labels $x = 7$ with $m = 0$ and $b = 7$ as though it were $y = 0x + 7$. Explain why this is not a valid parameter reading for slope-intercept form.

Interpreting Slope-Intercept Form

Full Worked Solutions - excerpt

Worked example

Problem. Give the exact y -intercept point for $y = (\frac{3}{5})x + \frac{7}{2}$.

Answer. The vertical-intercept point for $y = (\frac{3}{5})x + \frac{7}{2}$ is $(0, \frac{7}{2})$.

Explanation and check.

At the y -axis $x = 0$. Substituting removes the x -term and leaves $y = \frac{7}{2}$, hence $(0, \frac{7}{2})$.

Worked example

Problem. An account model is $B = 25m - 40$ dollars after m months. Interpret the rate and the signed zero-month value.

Answer. In $B = 25m - 40$, when one month passes, balance increases by \$ 25; the balance is -\$ 40 at month 0.

Explanation and check.

The x -variable coefficient describes output change per one input unit: balance increases by \$ 25. The constant describes the zero-input output: the balance is -\$ 40 at month 0.