

Test Revisions - Unit **XX** - Version **#**

1, 2, 3, ... → A, B, C, or D

Problem #	Steps and Formulas	Work and Answer (circled)
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Copy problem OR write problem #

Write the equation of the line through the points (2, 3) and (-3, -4)

- ① use slope formula to find slope.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$
- ② Substitute into slope-intercept form.

$$y = mx + b$$
- ③ Choose 1 of the points and substitute for x any y. Then solve for b.

- ①
$$m = \frac{3 - (-4)}{2 - (-3)}$$

$$= \frac{7}{5}$$
- ②
$$y = \frac{7}{5}x + b$$

$$3 = \frac{7}{5}(2) + b$$

$$3 = \frac{14}{5} + b$$

$$\frac{15}{5} - \frac{14}{5} = b$$

$$\frac{1}{5} = b$$

$$y = \frac{7}{5}x + \frac{1}{5}$$