6.2

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Use Linear Equations in Slope-Intercept Form

What is slope-intercept form?

$y = mx + b$

m: Slope b: y-intercept

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Key Concept

Step 1: Identify the slope m

Step 2: Find the y-intercept.

Step 3: Write an equation using y = mx + b

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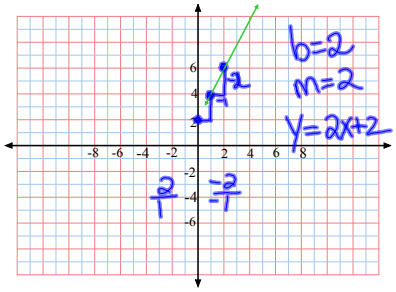

Example:

write an equation of the line shown.

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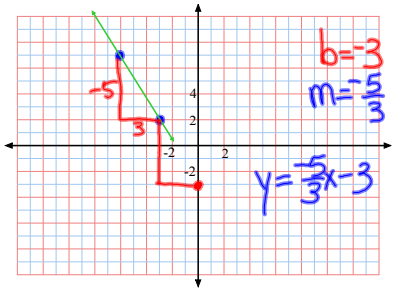

Example:

write an equation of the line shown.

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Write the equation of the line that passes through the given points:

(-1,-7) , (1,3)

Step 1: find slope

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$m = 5 = \frac{10}{2}$

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Step 2: find y-intercept

$y = 5x + b$

$3 = 5 \cdot 1 + b$

$3 = 5 + b$

$-2 = b$

Step 3: write the equation using y = mx + b

$y = 5x - 2$

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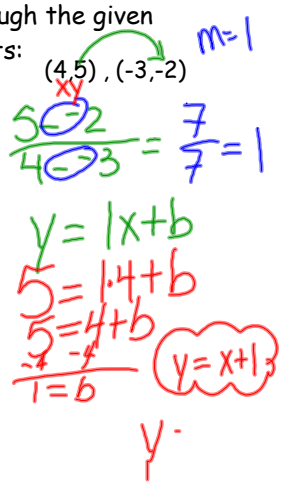
Write the equation of the line that passes through the given points:

(4,5) , (-3,-2)



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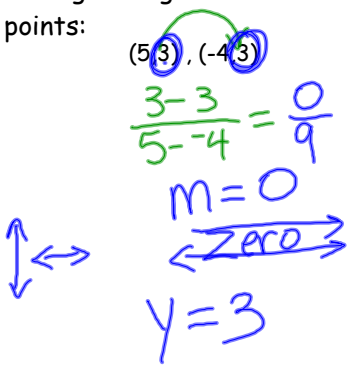
Write the equation of the line that passes through the given points:

(5,3) , (-4,3)



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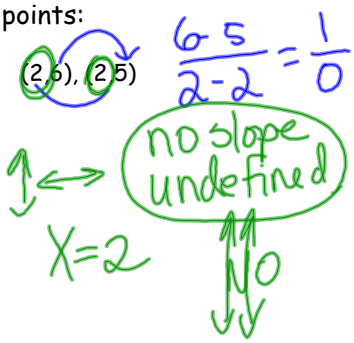
Write the equation of the line that passes through the given points:

(2,6), (2,5)



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