



Questions?
Ask a live tutor now!

Ask Question 

Write $5x + 2y + 10 = 0$ in the intercept form.

Question

$$5x + 2y + 10 = 0$$

$$5x + 2y + 10 - 10 = 0 - 10$$

$$5x + 2y = -10$$

$$\frac{5x}{-10} + \frac{2y}{-10} = \frac{-10}{-10}$$

$$\frac{x}{-2} + \frac{y}{-5} = 1$$

Answer

4. Linear functions

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Write $3(x - 1) + 4(y + 2) + 7 = 0$ in the intercept form.

Question

Answer

$$3(x - 1) + 4(y + 2) + 7 = 0$$

$$3x - 3 + 4y + 8 + 7 = 0$$

$$3x + 4y - 3 + 8 + 7 = 0$$

$$3x + 4y + 12 = 0$$

$$3x + 4y + 12 - 12 = 0 - 12$$

$$3x + 4y = -12$$

$$\frac{3x}{-12} + \frac{4y}{-12} = \frac{-12}{-12}$$

$$\frac{x}{-4} + \frac{y}{-3} = 1$$

4. Linear functions

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Write $5x + 2y + 10 = 0$ in the slope-intercept form.

Question

$$5x + 2y + 10 = 0$$

$$5x + 2y + 10 - 10 = 0 - 10$$

$$5x + 2y = -10$$

$$5x - 5x + 2y = -5x - 10$$

$$2y = -5x - 10$$

$$\frac{2y}{2} = \frac{-5x}{2} - \frac{10}{2}$$

$$y = -\frac{5}{2}x - 5$$

Answer

4. Linear functions

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Write (5, 7), (6, 8) in the slope-intercept form.

Question

Answer

$$(x_1, y_1) = (5, 7); (x_2, y_2) = (6, 8)$$

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

$$m = \frac{8 - 7}{6 - 5}$$

$$m = 1$$

$$y = mx + b$$

$$(x, y) = (5, 7); m = 1$$

$$7 = (1)5 + b$$

$$7 = 5 + b$$

$$7 - 5 = 5 - 5 + b$$

$$b = 2$$

$$m = 1, b = 2$$

$$y = (1)x + 2$$

$$y = x + 2$$

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Questions?
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Ask Question 

Write $5x + 2y + 10 = 0$ in the slope-point form using the point $(-2, 0)$.

Question

$$5x + 2y + 10 = 0$$

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

$$(x_1, y_1) = (-2, 0)$$

$$y - y_1 = m(x - x_1)$$

$$y - 0 = m[x - (-2)]$$

$$y = -\frac{5}{2}(x + 2)$$

Answer

4. Linear functions

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Write the line of slope 5 going through (10, 100) in the slope-intercept form.

Question

$$m = 5, (x, y) = (10, 100)$$

$$y = mx + b$$

$$100 = (5)10 + b$$

$$100 = 50 + b$$

$$100 - 50 = 50 - 50 + b$$

$$b = 50$$

$$m = 5, b = 50$$

$$y = (5)x + 50$$

$$y = 5x + 50$$

Answer

4. Linear functions

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