

MathFlare

Grade
9

MATH WORKBOOK

Equations and
Expressions

Linear
Equations and
Systems

Quadratic
Equations

Geometry

MathFlare Publishing

Step by Step Guide
and Essential Practice
with Answers



$(2, -30)$ and $(-5, 40)$

$$\text{Slope} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{40 - (-30)}{-5 - 2} = \frac{70}{-7} = -10$$

$$\text{Slope} = -10$$

$$5z + 17 = 8 + 6z$$

Subtract $5z$ and 17 from both sides

$$5z - 5z + 17 - 17 = 8 - 5z + 6z + 17 - 17$$

$$0z + 0 = 0 + 0$$

$$0z = 0$$

$$0z = 0$$

$$0 = 0$$

$$-7m - 3 - 3 - 6m$$

combine like terms

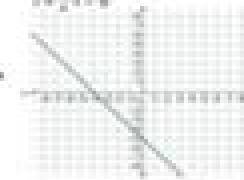
$$-7m - 6m - 3 - 3$$

$$-13m - 6$$

$$3x - 20x + 8x + 1 + 3$$

$$-9x + 4$$

$$-9x + 4 = 0$$



$$f(x) = -4x + 7, \text{ find } f(-2)$$

$$9x + 10 = -57$$

add -10 to both sides

$$9x + 10 - 10 = -57 - 10$$

$$9x = -67$$

divide both sides by 9

$$\frac{9x}{9} = \frac{-67}{9} \quad x = -\frac{67}{9}$$

$$x = \frac{-4 \pm \sqrt{4^2 - 4(3)(-2)}}{2(3)}$$

$$6 \div 4(12)(-3)$$

$$= 36 - (-36)$$

$$= 36 + 36 =$$

$$72$$

69

63

Grade 9 Math Academic Workbook

JE Gale



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element when an external force or moment is applied to the element causing it to bend

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