

Multiplying and Dividing Real Numbers

Overview of problems



Example Set: A

Evaluate the following

$$(-2)(7)$$

$$\frac{-8}{2}$$

$$(-1)(3)(-5)$$

$$10 \div (-2)$$

$$\frac{|-9|}{-3}$$

$$-4^2$$

$$3 \div -\frac{1}{2}$$

$$(-2y)^3$$

$$-6(x^2)$$

$$|-2|(-2)$$



Example Set: B

Evaluate the following

$$(-2x)(4x)(-1x)$$

$$(-3.8)(2.7)(-1.9)^2$$

$$\left(-\frac{1}{4}y\right)\left(\frac{1}{2}y\right) \div \left(-\frac{2}{3}\right)$$

$$\frac{(-5)(4) + 10}{-2}$$



Example Set: C

Evaluate the expression

$$3x^2 - x \quad \text{when } x = -2$$

$$-4x + 2x^3 \quad \text{when } x = -3$$

$$-5(x - 8) \quad \text{when } x = 6$$

$$(17 - y)(-3) \quad \text{when } y = 4$$

$$\frac{2x^2 - 5x + 1}{x + y} \quad \begin{array}{l} \text{when } x = 3 \\ y = -6 \end{array}$$

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Overview of problems-KEY



Example Set: A

Evaluate the following

$$(-2)(7) = -14$$

$$\frac{-8}{2} = -4$$

$$(-1)(3)(-5) = 15$$

$$10 \div (-2) = -5$$

$$\frac{|-9|}{-3} = -3$$

$$-4^2 = -16$$

$$3 \div -\frac{1}{2} = -6$$

$$(-2y)^3 = -8y^3$$

$$-6(x^2) = -6x^2$$

$$|-2|(-2) = -4$$



Example Set: B

Evaluate the following

$$(-2x)(4x)(-1x) = 8x^3$$

$$(-3.8)(2.7)(-1.9)^2 = -37.03$$

$$\left(-\frac{1}{4}y\right)\left(\frac{1}{2}y\right) \div \left(-\frac{2}{3}\right) = \frac{3}{16}y^2$$

$$\frac{(-5)(4) + 10}{-2} = 5$$



Example Set: C

Evaluate the expression

$$3x^2 - x \quad \text{when } x = -2 \quad 14$$

$$-4x + 2x^3 \quad \text{when } x = -3 \quad -42$$

$$-5(x - 8) \quad \text{when } x = 6 \quad 10$$

$$(17 - y)(-3) \quad \text{when } y = 4 \quad -9$$

$$\frac{2x^2 - 5x + 1}{x + y} \quad \text{when } x = 3$$
$$y = -6$$

$$= -\frac{4}{3}$$