

No 1

a $24 \div (4-2)^3$

$$24 \div (2)^3$$

$$24 \div 8$$

$$= 3$$

b $\sqrt{(-8-4)^2 + (8-7)^2}$

$$\sqrt{(-12)^2 + (-5)^2}$$

$$\sqrt{144 + 25}$$

$$\sqrt{169}$$

$$= 13$$

c $2 \mid 3^2 - 15 \mid$

$$2 \mid 9 - 15 \mid$$

$$2 \mid -6 \mid$$

$$2 \times 6$$

$$= 12.$$

No 1.

d

$$11 - (5+3)^2 - 11$$

$$11 - (8)^2 - 11$$

$$11 - 64 - 11$$

$$= -54.$$

No 2.

a $5 - 2(x^2 - 1) + (4x^2 - 1)$

$$5 - 2x^2 - 2 + 4x^2 - 1$$

$$5 - 2 - 2x^2 + 4x^2 - 1$$

$$2 + 2x^2$$

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

$$2 + 4x - 2 - 4x$$

$$2 - 2 + 4x - 4x$$

$$0 + 0$$

$$= 0.$$

NO 3.011

$$\begin{aligned} a \quad & -(-4x^3)^2 \\ & - (16x^6) \\ & = -16x^6 \end{aligned}$$

$$\begin{aligned} b \quad & -3x \cdot 5x^5 \\ & = -15x \cdot x^5 \\ & = -15x^6 \end{aligned}$$

$$\begin{aligned} c \quad & -\left(\frac{8x}{x^2}\right)^2 \\ & -\left(\frac{9x^2}{x^4}\right) \\ & = -\frac{9x^2}{x^4} \end{aligned}$$

$$\begin{aligned} d \quad & \frac{6x+16}{3} \\ & \frac{6x}{3} + \frac{16}{3} \\ & 2x + \frac{16}{3} \end{aligned}$$

NO 4:

a Commutative property.

b Associative property.

c Commutative property for addition.

d Commutative property.

No 5:

$$9x^3 - 12xy + 5$$

9, -12 = Coefficients
5 = Constants.

NO 6

$$(5x - 2)(x - 4)$$

Factor = 5, x

x, 1