

a) What is the area of this figure?

$$A = (x+4)(x+4)$$

$$x \cdot x = x^2$$

$$x \cdot 4 = 4x -$$

$$4 \cdot x = 4x -$$

$$4 \cdot 4 = 16$$

$$x^2 + 8x + 16$$

$$(x^2 + 8x + 16) + (x^2 - 2x + 1)$$

$$2x^2 + 6x + 17$$

$$A = (x-1)(x-1)$$

$$x \cdot x = x^2$$

$$x \cdot -1 = -1x$$

$$-1 \cdot x = -1x$$

$$-1 \cdot -1 = 1$$

$$x^2 - 2x + 1$$

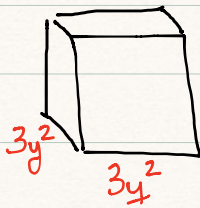
b) Find the area when  $x=3$

PEMDAS

$$2(3)^2 + 6(3) + 17$$

$$2(9) + 6(3) + 17$$

$$18 + 18 + 17 = 53 \text{ units}^2$$



Find the volume of the cube.

$$V = b \cdot h \cdot l$$

$$\begin{aligned} a) \quad V &= (3y^2) \cdot (3y^2) \cdot (3y^2) \\ &= 27y^6 \end{aligned}$$

b)  $y = 3$  liters

$$V = 27(3)^6 = 27 \cdot 729 = 19,683 \text{ liters}^3$$

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