

Algebra Equation

(1) $(X+3)^3 + 8 = 0$

$$(X+3)^3 = -8$$

$$x + 3 = -2$$

$$x = -5$$

(2) $(2X - 1)^3 - 27 = 0$

$$(2X - 1)^3 = 27$$

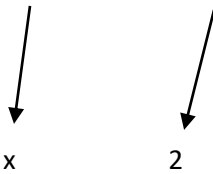
$$2x - 1 = 3$$

$$x = \frac{3+1}{2} = \frac{4}{2} = 2$$

$$a^3 + 3a^2b + 3ab^2 + b^3 = (a+b)^3$$

(3) $-9x^3 = 6x^2 + 12x + 8 \quad / + x^3$

$$-8x^3 = x^3 + 6x^2 + 12x + 8$$



$$-8x^3 = (x + 2)^3$$

$$(-2x)^3 = (x + 2)^3$$

$$-2x = x + 2$$

$$-3x = 2$$

$$x = -\frac{2}{3}$$