

Сворачивание кубов

$$1) 28x^3 + 3x^2 + 3x + 1 = 0$$

$$27x^3 + x^3 + 3x^2 + 3x + 1 = 0$$

$$27x^3 + (x+1)^3 = 0$$

$$(4x+1)(9x^2 + 3x^2 + 3x + x^2 + 2x + 1) = 0$$

$$(4x+1)(13x^3 + 5x + 1) = 0$$

$$x_1 = -\frac{1}{4}$$

$$x_2 = \text{нету}$$

$$2) 126x^3 - 3x^2 + 3x - 1 = 0$$

$$125x^3 + x^3 - 3x^2 + 3x - 1 = 0$$

$$125x^3 + (x-1)^3 = 0$$

$$(6x-1)(25x^2 + 5x^2 - 5x + x^2 - 2x + 1) = 0$$

$$(6x-1)(31x^2 - 7x + 1) = 0$$

$$x_1 = \frac{1}{6}$$

$$x_2 = \text{нету}$$

