

My Fifth L^AT_EX Document - MATH: Using the Align Environment

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February 22, 2019

Solve the equation $0 = 3x^3 + 3x^2 - 6x$.

$$0 = 3x^3 + 3x^2 - 6x \tag{1}$$

$$= 3(x^3 + x^2 - 2x) \tag{2}$$

$$= 3x(x^2 + x - 2) \tag{3}$$

$$= 3x(x + 2)(x - 1) \tag{4}$$

$$\therefore \tag{5}$$

$$x = 0, -2, 1 \tag{6}$$

Put star sign "*" in {align*} option will not show the steps:

$$0 = 3x^3 + 3x^2 - 6x$$

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

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

$$= 3x(x + 2)(x - 1)$$

$$\therefore$$

$$x = 0, -2, 1$$