

My Twelveth L^AT_EX Document - Label and Referencing

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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

$$x = 0, -2, 1 \tag{5}$$

In step (2) I factored out a three. In step (3) I factored out an x , and in step (4) I factored the polynomial.