

Problem 2: Solving Polynomial Equations by Factoring

What are the real or imaginary solutions of each polynomial equation?

$$A. \quad x^4 - 3x^2 = 4$$

Make the equation = 0

$$x^4 - 3x^2 - 4 = 0$$

Let $a = x^2$ then $x^4 = a^2$ and $3x^2 = 3a$

$$a^2 - 3a - 4 = 0$$

Factor with -4 and +1

$$(a - 4)(a + 1) = 0$$

Replace back $a = x^2$

$$(x^2 - 4)(x^2 + 1) = 0$$

Then $x^2 - 4 = x^2 - 2^2 = (x - 2)(x + 2)$

$$(x + 2)(x - 2)(x^2 + 1) = 0$$

$$x^2 + 1 = 0$$

$$x - 2 = 0$$

$$x + 2 = 0$$

and

$$x^2 = -1 \quad \text{applied } \sqrt{\quad}$$

$$x = 2$$

$$x = -2$$

$$x = \pm i$$

Two imaginary roots

Solving Polynomial Equations Foundations Algorithms And Applications

K Morrison



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