

**Solve Polynomials #1****Find all roots.**

1)  $x^3 - 2x^2 - 8x = 0$

2)  $x^3 - 2x^2 - 4x + 8 = 0$

3)  $x^3 - 5x^2 + 4x = 0$

4)  $x^3 + 2x^2 + 4x + 8 = 0$

$$5) \ x^4 - 13x^2 + 36 = 0$$

$$6) \ x^4 + 8x^2 - 9 = 0$$

**Find all zeros.**

$$7) \ f(x) = x^3 + 8$$

$$8) \ f(x) = x^4 - 7x^2 + 12$$