

## 1.4 Polynomial Equations WS 4

**Find all roots.**

1)  $x^4 - 9x^2 + 20 = 0$

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

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

4)  $x^4 - 81 = 0$

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

6)  $x^3 - 125 = 0$

$$7) x^3 - 4x^2 + 4x - 16 = 0$$

$$8) x^4 - 5x^2 - 6 = 0$$

$$9) x^3 + 27 = 0$$

$$10) 2x^5 + 13x^3 - 7x = 0$$

$$11) -27x^3 + 125 = 0$$

$$12) 5x^3 - 15x^2 + 4x - 12 = 0$$