

## 1.4 Polynomial Equations WS 3

**Find all roots.**

1)  $x^4 + x^2 - 6 = 0$

2)  $x^3 + 125 = 0$

3)  $x^3 - 5x^2 - 5x + 25 = 0$

4)  $x^4 + x = 0$

5)  $x^5 + 2x^3 - 48x = 0$

6)  $x^3 - 5x^2 + 4x - 20 = 0$

$$7) x^4 - 36 = 0$$

$$8) x^3 - 64 = 0$$

$$9) x^3 + 2x^2 + 3x + 6 = 0$$

$$10) x^4 - x^2 - 72 = 0$$

$$11) x^3 + 9x^2 + 20x = 0$$

$$12) x^3 + 27 = 0$$