## 2.5 Finding the zeros of polynomial functions

We will learn how to:

- Determine the number of zeros of polynomial functions ٠
- Find rational zeros of polynomial functions •
- Find conjugate pairs of complex zeros ٠
- •
- Find zeros of polynomials by factoring Write a polynomial function given the roots. •

$$P(x) = a_1 x^n + a_2 x^{n-1} + \dots + a_{n-1} x + a_n$$
  
Factored form  $a(x - r_1)(x - r_2) \dots (x - r_n)$   
The roots are  $r_1, r_2, \dots, r_n$ 











