Practice worksheet | Real Polynomials

Zeros, roots and factors

Name: _____ Date: _____

6 questions | 12 marks

1. List the zeros of $(x-5)(x+2)(2x-3)$. [2 marks]

2. State multiplicities and crossing behaviour for $x^2(x+1)^3$. [2 marks]

3. Check whether -1 is a zero of x^3+2x^2-x-2. [2 marks]

4. Write a monic cubic with zeros $-2, 1, 4$. [2 marks]

5. Give a quadratic with no real zeros and explain how you know. [2 marks]

6. A quartic has three distinct zeros, one of them repeated twice and the others simple. How many roots are counted with multiplicity? [2 marks]