Practice worksheet | Real Polynomials

Finding and factorising real polynomial roots

Name: _____ Date: _____

6 questions | 13 marks

1. Factor $x^3 - 7x + 6$. [2 marks]

2. Factor $x^3 + x^2 - 4x - 4$. [2 marks]

3. Factor $2x^3 - 3x^2 - 8x + 12$. [2 marks]

4. Factor $x^4 - 5x^2 + 4$ and state all its real roots. [2 marks]

5. Factor $x^3 - 3x^2 - 4x + 12$. [2 marks]

6. Factor $x^4 - 1$ as far as possible over the reals. Why does one quadratic remain? [3 marks]