Practice worksheet | Real Polynomials

Solving real polynomial equations

Name: _____ Date: _____

6 questions | 13 marks

1. Solve $x^3 - 7x + 6 = 0$. [2 marks]

2. Solve $x^4 - 10x^2 + 9 = 0$. [2 marks]

3. Solve $x^4 + x^2 - 6 = 0$ over the reals. [2 marks]

4. Solve $2x^3 - 3x^2 - 8x + 12 = 0$. [2 marks]

5. A model gives $t(t-2)(t+5) = 0$ for a time with $0 < t < 4$. State the allowed solution and explain both exclusions. [2 marks]

6. A student solves $x^3 = 9x$ by dividing by x and reports $x = \pm 3$. Correct the answer. [3 marks]