Practice worksheet | Quadratics and polynomial graphs

Cubic factors and roots

Name: _____ Date: _____

6 questions | 16 marks

1. Show $x-2$ divides x^3-4x^2+x+6. [2 marks]

2. Divide x^3-4x^2+x+6 by $x-2$. [3 marks]

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

4. Find k when $x+2$ divides x^3+kx+6. [2 marks]

5. Factorise $x^3+2x^2-9x-18$. [3 marks]

6. Solve $x^3-3x+2=0$, stating repeated roots. [3 marks]