Practice worksheet | Quadratics and polynomial graphs

Quadratic formula and exact surd answers

Name: _____ Date: _____

6 questions | 17 marks

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

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

3. Solve $3x^2 - 5x + 1 = 0$ exactly. [3 marks]

4. Solve $x^2 = 3x + 2$ exactly. [3 marks]

5. A positive length x satisfies $x^2 + 2x = 8$. Find x. [2 marks]

6. Give both roots of $x^2 - 2x - 4 = 0$ to 3 decimal places. [3 marks]