Practice worksheet | Quadratics and Parabolas

Quadratic formula

Name: _____ Date: _____

6 questions | 18 marks

1. Use the formula to solve $2x^2 + 3x - 1 = 0$ exactly. [3 marks]

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

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

4. Solve $4x^2 - 4x - 1 = 0$ exactly. [3 marks]

5. Solve $x^2 - 6x + 2 = 0$. Give both answers to three decimal places. [3 marks]

6. A student writes the roots of $x^2 + 5x - 2 = 0$ as $\frac{5 \pm \sqrt{33}}{2}$. Correct the answer and explain the error. [3 marks]