Practice worksheet | Quadratics and Parabolas

Completing the square

Name: _____ Date: _____

6 questions | 16 marks

1. Complete the square: $x^2 + 6x + 5$. [2 marks]

2. Complete the square: $x^2 - 10x + 8$. [2 marks]

3. Complete the square: $3x^2 + 12x + 1$. [3 marks]

4. Solve $x^2 + 2x - 4 = 0$ by completing the square. [3 marks]

5. Write $x^2 + 3x + 1$ in completed-square form. [3 marks]

6. Find the minimum value of $2x^2 + 8x + 1$ and the x-value where it occurs. [3 marks]