Practice worksheet | Quadratics and polynomial graphs

Completing the square

Name: _____ Date: _____

6 questions | 14 marks

1. Write $x^2 + 4x + 1$ in completed-square form. [2 marks]

2. Write $x^2 - 6x + 2$ in completed-square form. [2 marks]

3. Rewrite $3x^2 - 12x + 8$ in square form. [3 marks]

4. Solve $(x-2)^2 = 7$ exactly. [2 marks]

5. Find the maximum of $-2(x+1)^2 + 9$. [2 marks]

6. Solve $x^2 - 4x - 1 = 0$ by completing the square. [3 marks]