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]