Practice worksheet | Quadratics and Parabolas

Expanded, factored and vertex forms

Name: _____ Date: _____

6 questions | 14 marks

1. Expand $y = (x - 2)(x + 5)$. [2 marks]

2. Write $y = x^2 - 4x - 5$ in factored form. [2 marks]

3. Write $y = x^2 + 4x + 1$ in vertex form. [2 marks]

4. Write $y = -2(x-1)^2 + 8$ in expanded form. [2 marks]

5. A parabola has roots 1 and 5 and passes through $(0, 10)$. Find its rule. [3 marks]

6. A parabola has vertex $(2, -3)$ and passes through $(0, 5)$. Find its rule. [3 marks]