Practice worksheet | Quadratics and Parabolas

Roots, intercepts, symmetry and turning point

Name: _____ Date: _____

6 questions | 14 marks

1. For $y = (x + 2)(x - 4)$, state both x-intercepts. [2 marks]

2. Find the y-intercept of $y = x^2 - 6x + 8$. [2 marks]

3. Find the axis of a parabola with roots 3 and 9. [2 marks]

4. Find the turning point of $y = (x - 2)(x - 6)$. [3 marks]

5. Find the turning point of $y = -x^2 + 9$ and state its type. [2 marks]

6. Use the graph to give the minimum value and the number of real roots of $y = (x - 2)^2 + 1$. [3 marks]

