Practice worksheet | Quadratics and polynomial graphs

Vertex/intercept/axis features

Name: _____ Date: _____

6 questions | 14 marks

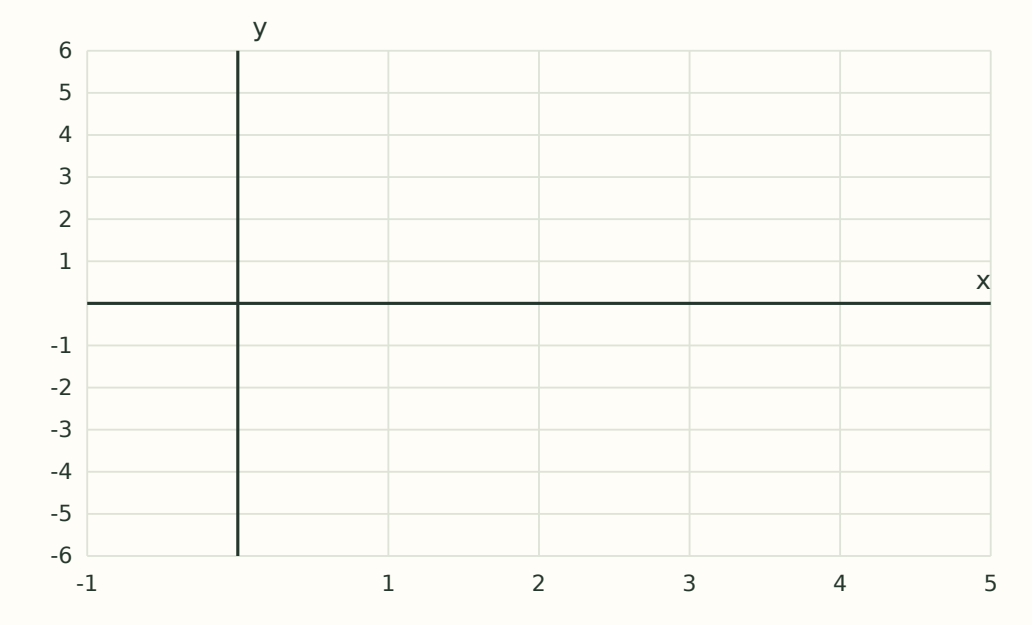
1. State vertex/axis for $y = (x - 5)^2 + 2$. [2 marks]

2. Find the y-intercept of $y = -2(x + 1)^2 + 8$. [2 marks]

3. Find x-intercepts of $y = (x - 1)^2 - 9$. [2 marks]

4. Find the vertex of $y = x^2 + 6x + 4$. [2 marks]

5. Sketch $y = -(x-2)^2 + 4$, labelling vertex/intercepts. [4 marks]



6. Give domain/range of $y = 3(x+1)^2 - 6$ for real x. [2 marks]