Quadratic & Cubic Graphs (H & F)

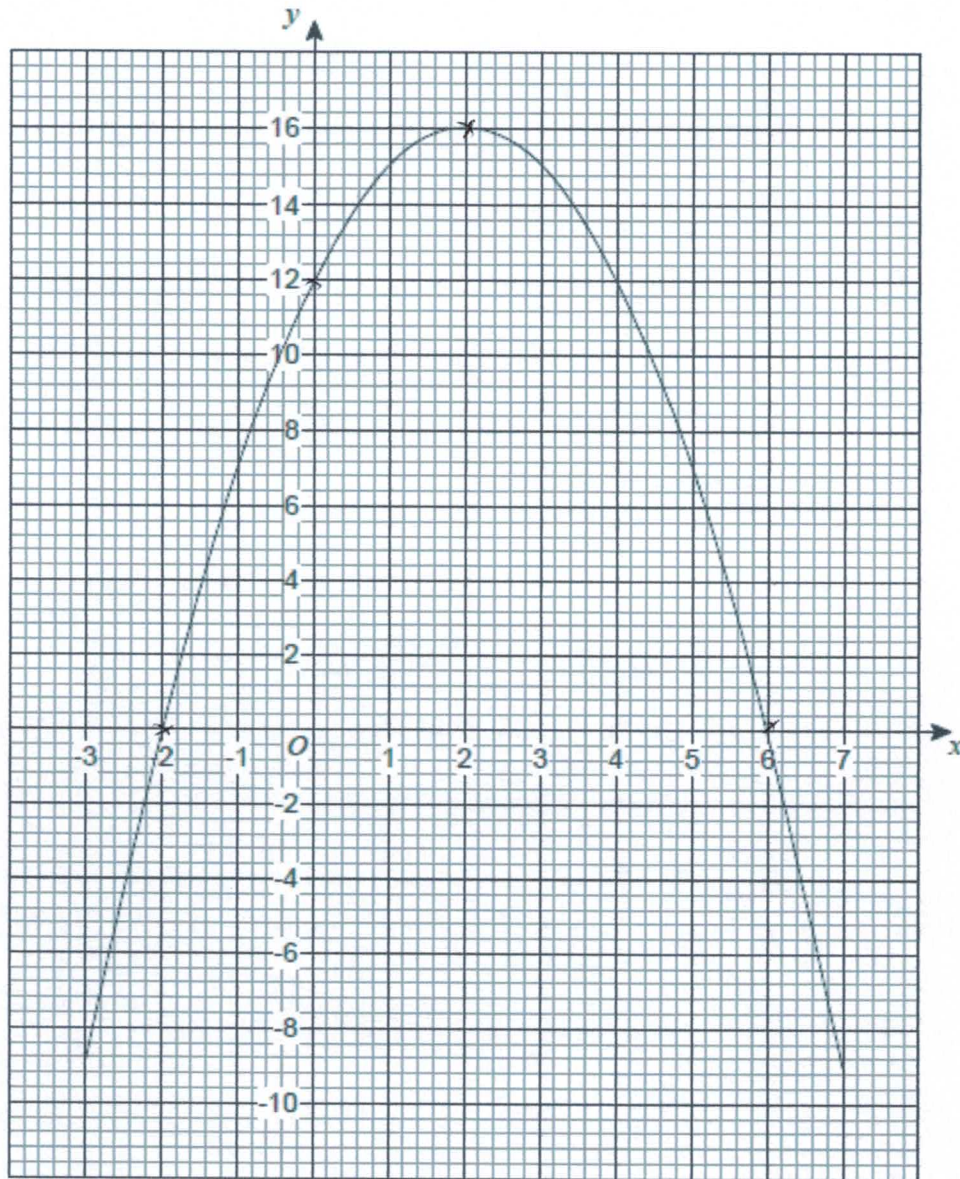| Name:	Glyn Brown
Total Marks:	

1. Sketch a graph on the axes below that shows $y = x^3$.
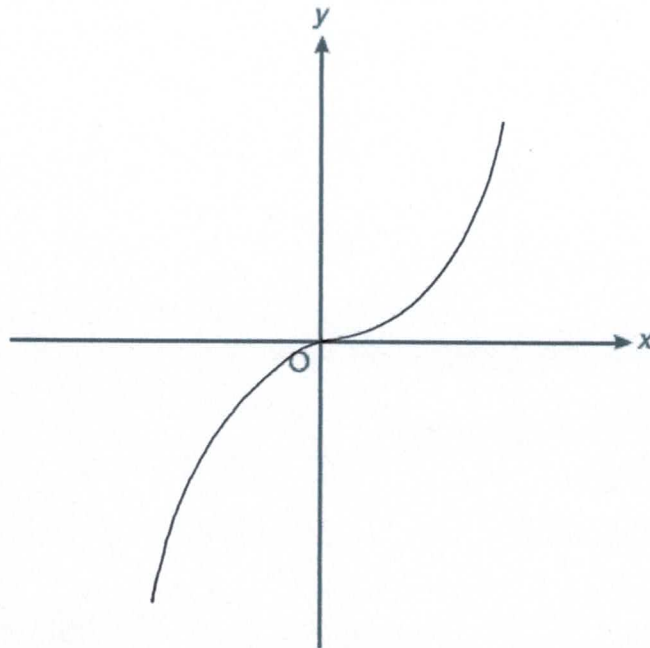
[2]

2. The graph y = a + bx - x² is shown.

(a) Circle the coordinates of the turning point of the curve.

(-2, 0)   (0, 12)   ⟨(2, 16)⟩   (6, 0)

[1]

(b) Circle the value of a.

[1]

-2   ⟨12⟩   16   6

(c) Circle the two roots of a + bx - x² = 0

⟨-2 and 6⟩   2 and -6   2 and 6   -2 and -6

[1]