

Core 1

Coordinate Geometry

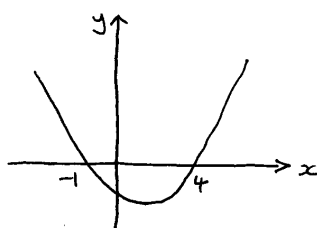
Section 2: Curves and circles

Multiple Choice Test

1) Given $y = 5 - 3x - 2x^2$, what is the value of y when $x = -2$?

- (a) -9 (b) 3
(c) -5 (d) 27
(e) I don't know

2)



Which of the following is the equation of the parabola shown?

- (a) $y = x^2 - 3x - 4$ (b) $y = x^2 + 3x - 4$
(c) $y = x^2 + 3x - 3$ (d) $y = x^2 - 3x - 3$
(e) I don't know

3) A circle has the equation $x^2 + y^2 = 16$.
What is the radius of this circle?

- (a) 256 (b) 8
(c) 16 (d) 4
(e) I don't know

4) A circle has the equation $(x + 3)^2 + (y - 1)^2 = 4$.
Which of the following statements is false?

- (a) The x coordinate of the centre is -3 (b) The radius of the circle is 2
(c) The y coordinate of the centre is -1 (d) The point $(-3, -1)$ lies on the circle
(e) I don't know

5) Which of the following equations represents a circle, radius 5 and centre $(0, 0)$?

- (a) $x^2 + y^2 = 25$ (b) $y^2 = 5x^2$
(c) $(x - 5)^2 + (y - 5)^2 = 0$ (d) $x^2 + y^2 = 5$
(e) I don't know

