

Solutions

Marking: **M1** a correct method, **A1** the correct answer.

Each answer shows the steps, then the **result**.

2.1

- a **parabola** (a U-shaped curve)

2.2

- **(4, 2)**

2.3

- y -intercept **-5**

3.1

- half of 6 is 3, $3^2 = 9$
- $x^2 + 6x + 5 = (x + 3)^2 - 9 + 5 = (\mathbf{x + 3})^2 - \mathbf{4}$

3.2

- turning point **(-3, -4)**

3.3

- line of symmetry **$x = -3$**