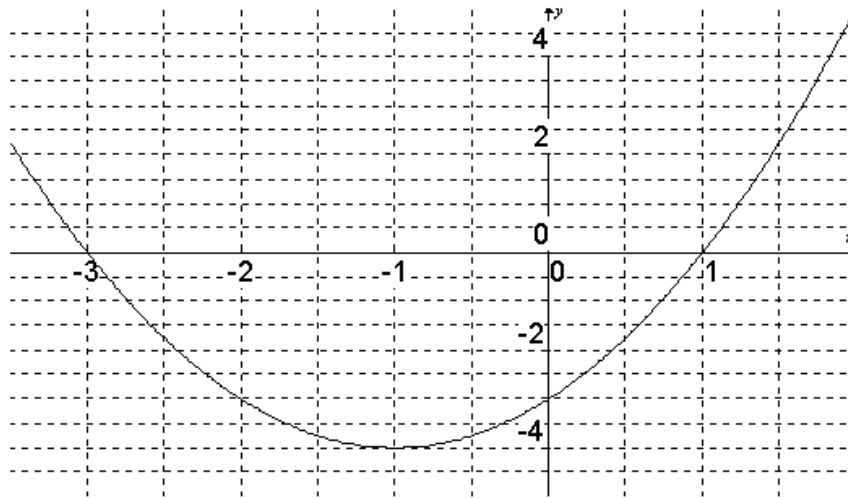


Graph of a Parabola

This is the graph of $y = x^2 + 2x - 3$.



1. What are the **zeros** of the graph?
2. What is the **y-intercept**?
3. What are the coordinates of the **vertex**?
4. What is the equation of the **axis of symmetry**?

Factorising Review

Recall:

- ❖ To factorise an expression completely, *always start by taking out the largest common factor.*
- ❖ The difference of squares identity: $a^2 - b^2 = (a+b)(a-b)$

Factorise these expressions completely.

1. $4y - 24$
2. $12x - 14y$
3. $3c - 6d + 9e - 12f$
4. $4x^2 - 3x$
5. $2x^2 - 2x - 4$
6. $x^2 - 16$
7. $2y^2 - 18$
8. $x^2 + 6x + 9$
9. $12x^2 - 12x + 4$