

# Worksheet 2

## Completing the square

1. What values would be placed in the boxes to create perfect square trinomials?

a.  $x^2 + 16x + \square$

b.  $m^2 - 3m + \square$

c.  $q^2 - 24q + \square$

2. Solve by completing the square.

$$x^2 - 4x + 6 = 0$$

3. Solve by completing the square.

$$x^2 + 20x + 40 = 0$$

4. Solve by completing the square.

$$-x^2 - 2x - 5 = 0$$

5. Solve by completing the square.

$$4x^2 + 4x = 3$$