

Solving Quadratics by Factorising

Solve these quadratic equations.

- (a) $(x - 4)(x - 1) = 0$
- (b) $(x - 4)(x + 1) = 0$
- (c) $(x + 4)(x + 1) = 0$
- (d) $(x + 4)(x - 6) = 0$

- (a) $x = 4, x = 1$
- (b) $x = 4, x = -1$
- (c) $x = -4, x = -1$
- (d) $x = -4, x = 6$

Solve these quadratic equations.

- (a) $x^2 + 5x + 4 = 0$
- (b) $x^2 + 5x + 6 = 0$
- (c) $x^2 + 7x + 6 = 0$
- (d) $x^2 + 10x + 16 = 0$
- (e) $x^2 + 10x + 21 = 0$

- (a) $x = -1, x = -4$
- (b) $x = -3, x = -2$
- (c) $x = -6, x = -1$
- (d) $x = -8, x = -2$
- (e) $x = -7, x = -3$

Solve these quadratic equations.

- (a) $x^2 - 7x + 6 = 0$
- (b) $x^2 - 6x + 8 = 0$
- (c) $x^2 - 9x + 8 = 0$
- (d) $x^2 - 9x + 18 = 0$
- (e) $x^2 - 11x + 18 = 0$

- (a) $x = 6, x = 1$
- (b) $x = 4, x = 2$
- (c) $x = 8, x = 1$
- (d) $x = 3, x = 6$
- (e) $x = 9, x = 2$

Solve these quadratic equations.

- (a) $x^2 + 3x - 4 = 0$
- (b) $x^2 + 5x - 6 = 0$
- (c) $x^2 + x - 6 = 0$
- (d) $x^2 - 2x - 8 = 0$
- (e) $x^2 - 6x - 16 = 0$

- (a) $x = -4, x = 1$
- (b) $x = -6, x = 1$
- (c) $x = -3, x = 2$
- (d) $x = 4, x = -2$
- (e) $x = 8, x = -2$

Solve these quadratic equations.

- (a) $x^2 = 24 + 2x$
- (b) $30 + x^2 = 13x$
- (c) $x^2 + 9 = 6x$
- (d) $44 = x^2 - 7x$
- (e) $x^2 - x = 72$
- (f) $(x + 1)(x - 2) = 4$

- (a) $x = 6, x = -4$
- (b) $x = 10, x = 3$
- (c) $x = 3$
- (d) $x = 11, x = -4$
- (e) $x = 9, x = -8$
- (f) $x = 3, x = -2$