

## Quadratic Equations 1

Solve the following equations:

- 1)  $x^2 - 6x - 16 = 0$     2)  $x^2 + x - 42 = 0$     3)  $x^2 = 8x + 20$   
4)  $x^2 + 3x = 40$     5)  $x^2 = 8x - 15$     6)  $x^2 + 12x + 32 = 0$   
7)  $2x^2 + 7x + 3 = 0$     8)  $2x^2 + 3x - 2 = 0$     9)  $2x^2 = 3x + 2$   
10)  $3x^2 - 13x = 10$

## Quadratic Equations 2

Solve:

- 1)  $x^2 = 8x - 15$     2)  $x^2 + 4x = 5$     3)  $x^2 - 5x = 36$   
4)  $x^2 + 10x + 16 = 0$     5)  $x^2 = x + 20$     6)  $x^2 = 9x - 18$

## Quadratic Equations 3

1) Solve by using the formula, giving answers to 2 decimal places:

(a)  $3x^2 + 5x - 7 = 0$     (b)  $2x^2 = 4x + 13$

2) Solve using the formula. Then check your answers by factorisation:

(a)  $x^2 - 19x + 60 = 0$     (b)  $x^2 + 8x = 48$