

## QUADRATIC EQUATIONS – EXERCISES

Solve each of the following equations by the method of your choice and check your solutions.

1.  $x^2 - 2x + 1 = 0$
2.  $x^2 + 9x + 20 = 0$
3.  $3x^2 - 5x - 12 = 0$
4.  $6x^2 + 9x - 6 = 0$
5.  $x^2 + 3x - 28 = 0$
6.  $3x^2 - 2x = 2x + 7$
7.  $4x^2 - 12x = 16$
8.  $x^2 + 3x = 0$
9.  $3 + \frac{1}{x} = \frac{10}{x^2}$
10.  $3y^2 - y - 4 = 0$
11.  $y^2 + 2y + 1 = 0$
12.  $x^2 - 2x - 8 = 0$
13.  $x^2 + 4 = 0$
14.  $x^2 + x = -1$
15.  $9y^2 + 6y - 8 = 0$
16.  $y^2 - 25 = 0$
17.  $6y^2 - 13y + 6 = 0$
18.  $x - \frac{4}{3x} = \frac{-1}{3}$
19.  $x - \frac{4}{x} = \frac{21}{5}$
20.  $3 + \frac{5}{2x} = \frac{1}{x^2}$
21.  $4 - \frac{1}{x} = \frac{3}{x^2}$
22.  $8x = x^2$
23.  $(x - 5)(x + 8) = -20$
24.  $(x + 6)(x - 3) = 10$
25.  $\frac{2}{x + 5} - \frac{x}{x - 5} = 1$