

### Finding the roots of Quadratic Equations

Solve the following using factorising:

a)  $x^2 + 4x - 21 = 0$

b)  $2x^2 + 17x + 21 = 0$

c)  $20x^2 + 46x + 24 = 0$

Solve the following using the Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

d)  $3x^2 + 6x - 2 = 0$

e)  $3x^2 + 12 + 6 = 0$

f)  $8x^2 + 25 + 7 = 0$

In the exam, it will often specify how you need to solve the equation and so you will need to use both methods correctly.