4A Roots of Quadratics

- 1. The roots of the quadratic equation $2x^2 5x 4 = 0$ are α and β . Without solving the equation, find the values of:
- a) $\alpha + \beta$
- b) *αβ*
- c) $\frac{1}{\alpha} + \frac{1}{\beta}$

d) $\alpha^2 + \beta^2$

2. The roots of the quadratic equation $ax^2 + bx + c = 0$ are $\alpha = -\frac{3}{2}$ and $\beta = \frac{5}{4}$. Find integer values for a, b and c.