1. The roots of the equation

$$x^3 - 8x^2 + 28x - 32 = 0$$

are α , β and γ

Without solving the equation, find the value of

(i)
$$\frac{1}{\alpha} + \frac{1}{\beta} + \frac{1}{\gamma}$$

(ii)
$$(\alpha + 2)(\beta + 2)(\gamma + 2)$$

(iii)
$$\alpha^2 + \beta^2 + \gamma^2$$