



1. In Fig. 1.1 , CP, CQ are tangents from an external point C to a circle with centre O . Extend the tangent AR to meet CQ at B . If $CP = 11\text{cm}$ and $BR = 4\text{cm}$, find the length of BC .

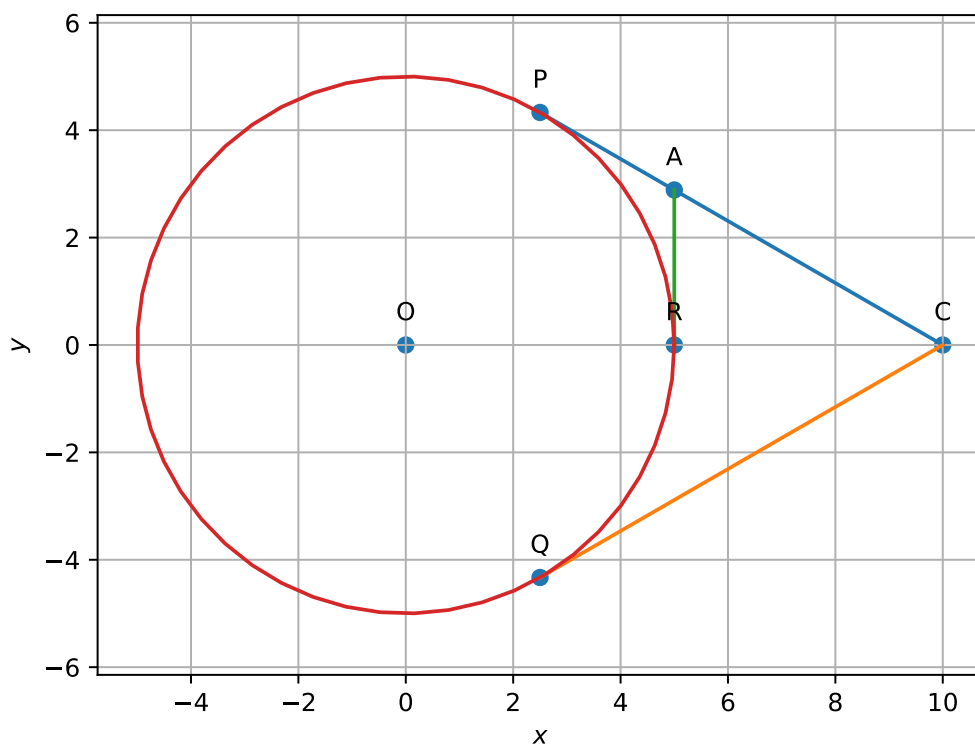


Fig. 1.1

2. α, β are the zeroes of the polynomial

$$2y^2 + 7y + 5, \quad (2.1)$$

write the value of $\alpha + \beta + \alpha\beta$.