

From (1) & (2) CQ = CP

Now consider $\triangle COQ \& \triangle COP$

$$\angle Q = \angle P = 90^{\circ}$$

$$CQ = CP$$
 (Proved)

CQ = CO (common side)

 $\therefore \ \Delta \ \mathbf{COQ} \cong \Delta \ \mathbf{COP} \ \ [\ \mathbf{RHS} \ \mathbf{Congruency}]$

 \therefore CQ = OP [CPCT]

Hence Proved.
