1. In Fig. **??**, PQ is a tangent at point C to a circle with center O. If AB is a diameter and $\angle CAB = 30°$, find $\angle PCA$.
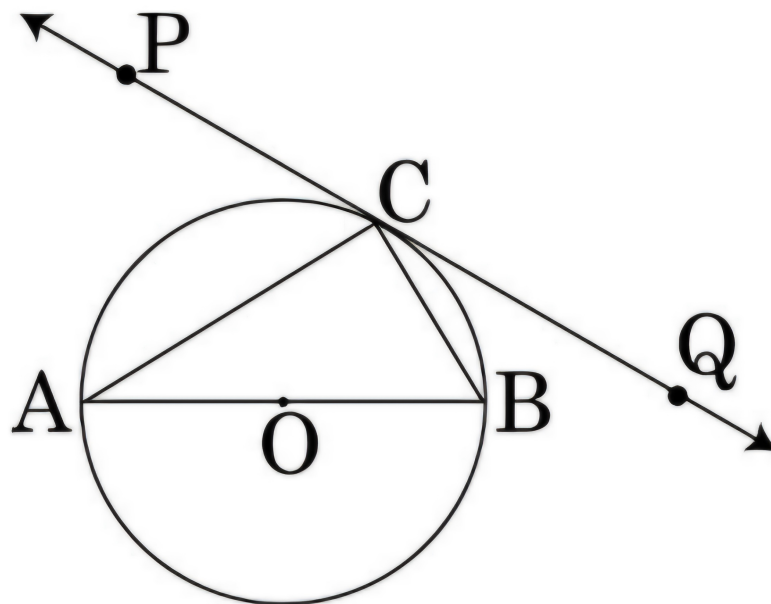

Figure 1: CircleABC