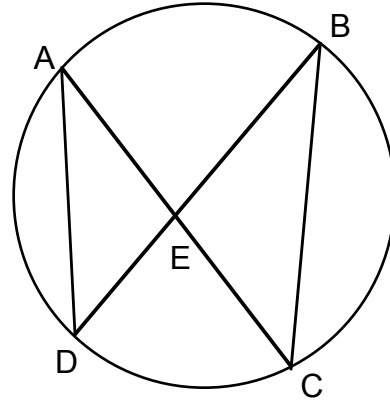


Honors Geometry Circle Proofs

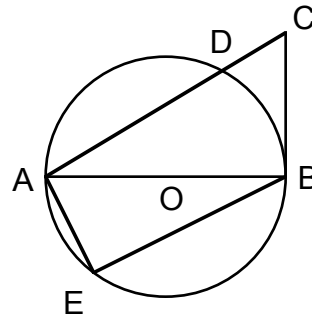
Name:

1. Given the circle and diagram as shown,
 Prove: $(AE)(EC) = (BE)(ED)$



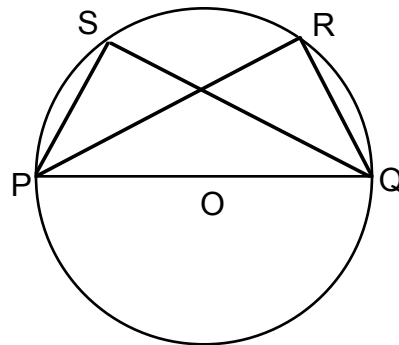
2. Given: \overline{AOB} is a diameter
 \overline{BC} is a tangent
 $\overline{BE} \parallel \overline{AC}$

Prove: $\triangle ABE \sim \triangle CAB$



3. Given: \overline{POQ} is a diameter
 $\widehat{PS} \cong \widehat{RQ}$

Prove: $\triangle PSQ \cong \triangle QRP$



4. Given: O is the center of the circle
 \overline{VE} and \overline{RE} are tangent

Prove: \overline{OVR} is a cyclic quadrilateral

