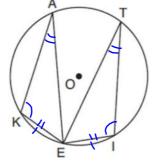
DO NOW

In the diagram below of circle O, points K, A, T, I, and E are on the circle, $\triangle KAE$ and $\triangle ITE$ are

drawn,
$$\widehat{KE} \cong \widehat{EI}$$
, and $\angle EKA \cong \angle EIT$.

Which statement about $\triangle KAE$ and $\triangle ITE$ is always true?

Congruent by AAS



- 1) They are neither congruent nor similar.
- 2) They are similar but not congruent.
- 3) They are right triangles.
- 4) They are congruent.

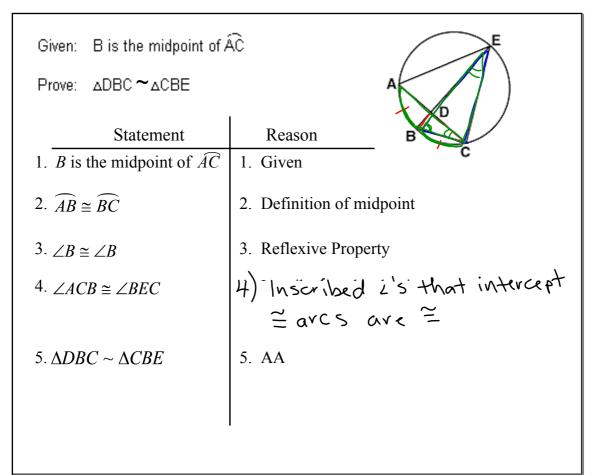
May 8-8:02 AM

Similarity Circle Proofs

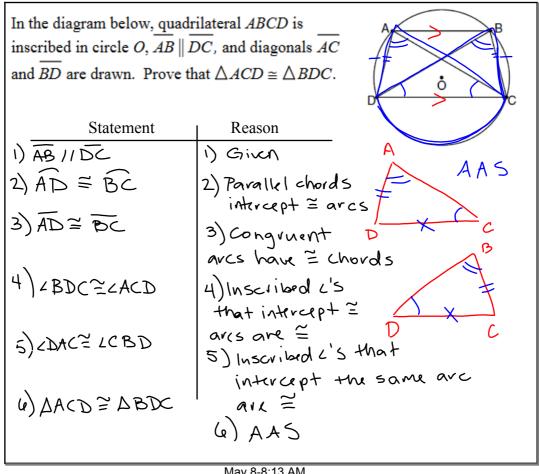
REMEMBER: To prove triangles SIMILAR (~), use Angle-Angle (AA)

If the triangles are similar, then use corresponding sides to prove a PROPORTION

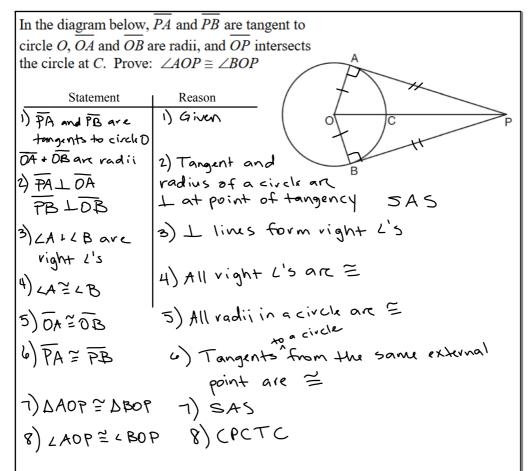
Once you set up a proportion, you can use it to prove that CROSS PRODUCTS are equal



Apr 6-11:43 AM



May 8-8:13 AM



May 8-8:17 AM

In the diagram below of circle O, tangent EC is drawn to diameter AC. Chord BC is parallel to secant ADE, and chord AB is drawn.

Prove: $\frac{BC}{CA} = \frac{AB}{EC}$

DBAC~DEAC

