BECA / Dr. Huson / Geometry 07-Similarity   Name:
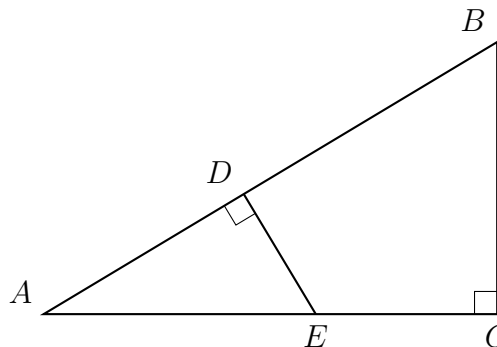pset ID: 121

7-8bHW-Constructions

1. In $\triangle ABC$ shown below, $\angle ACB$ is a right angle, E is a point on $\overline{AC}$, and $\overline{ED}$ is drawn perpendicular to hypontenuse $\overline{AB}$. Given $\triangle ABC \sim \triangle AED$.

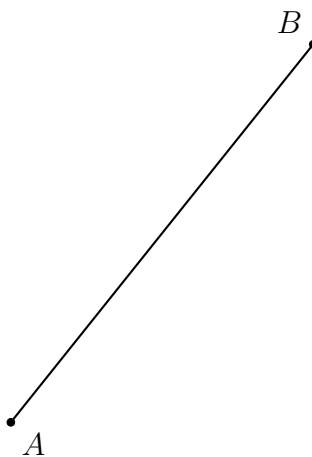   (a) Justify $\angle BAC \cong \angle EAD$.

   (b) $\angle B \rightarrow$ _____

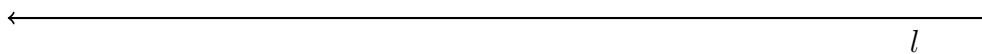   (c) $\overline{AC} \rightarrow$ _____

   (d) $DE = k\times$ _____

2. Complete the construction of a perpendicular bisector of $\overline{AB}$. Label the midpoint M. Show all construction marks, but make no extra lines.

3. Complete the construction of a line perpendicular to line l through the point P. Show all construction marks, but make no extra lines.

P •

l

4. Accurately draw a square that is 5 centimeters on each side.