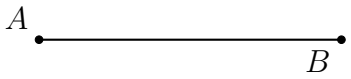
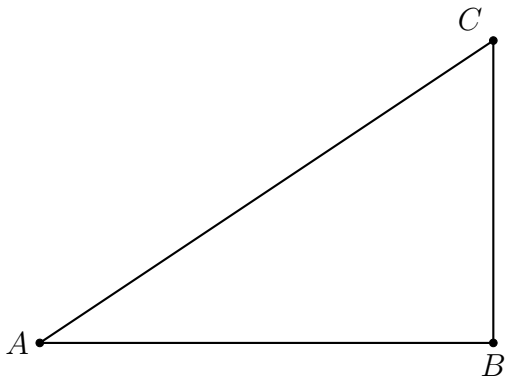
BECA / Dr. Huson / Geometry 05-Transformations Name:
pset ID: 58

5-1CW-dilation-construction

1. Construct a line segment $\overline{AB'}$ that is twice the length of $\overline{AB}$, $AB' = 2 \times AB$. (Do not measure with a ruler. Leave all construction marks.)



2. Construct a triangle $\triangle AB'C'$ with sides twice the length of $\triangle ABC$, that is $AB' = 2 \times AB$, $AC' = 2 \times AC$, and $B'C' = 2 \times BC$.



Dilate a triangle with a center of dilation

3. Perform a dilation centered at P with a scale factor $k = 2$.
   Make a table of the two triangles' side lengths, showing their ratios.