BECA / Dr. Huson / Geometry 05-Transformations   Name:
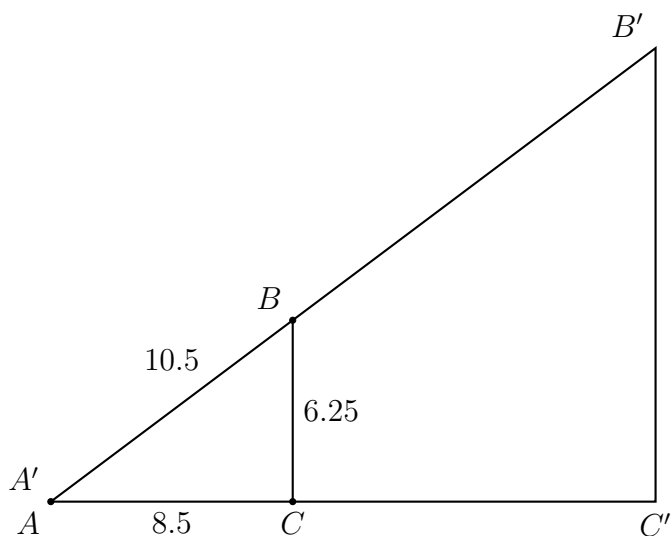pset ID: 60

5-2DN-triangle-dilation

1. A dilation centered at A with $k = 3$ maps $\triangle ABC \to \triangle A'B'C'$. Given the sides of the preimage, $AC = 8.5$, $BC = 6.25$, and $AB = 10.5$, find the corresponding lengths of the image, writing your answer showing the multiplication by the value of k using proper notation.

2. A dilation centered at A maps $\triangle ABC \to \triangle A'B'C'$. Given the sides of the preimage, $AC = 4$, $BC = 3$, $AB = 5$, and of $B'C' = 7.5$ find the scale factor k and the lengths $A'C'$ and $A'B'$.

   Spicy: Find CC'.