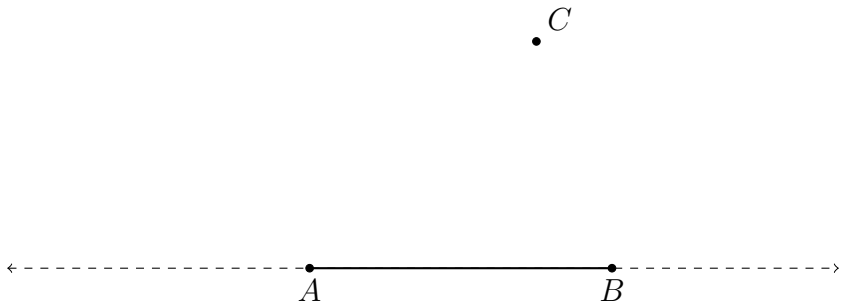
BECA / Dr. Huson / 10th Grade Geometry Name: .
15 November 2018

Do Now: Applications of altitude constructions

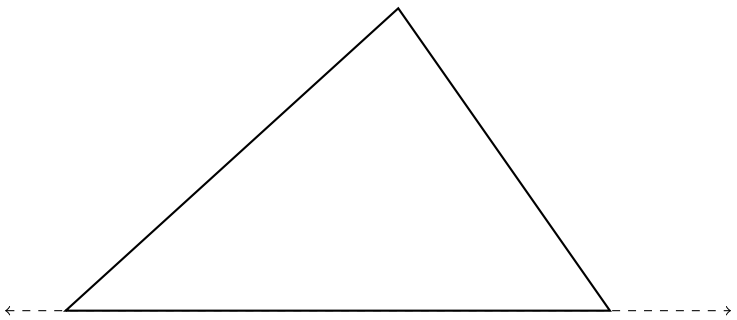
Use only a compass and straightedge for these classical constructions.

1. Construct a perpendicular to $\overline{AB}$ though C.
   Hint: Start with a circle centered on C that intersects $\overleftrightarrow{AB}$ in two places.



Construct a triangle's orthocenter

2. Construct a perpendicular to each of the leg of the triangle from the opposite vertex. Show their intersection, the orthocenter. Hint: you may extend the triangle sides as has been done for you on one side.



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Spicy: Construct a hexagon inscribed in a circle

3. Construct an equilateral triangle on $\overline{AB}$ by drawing a circle centered on A. Continue with a second equilateral triangle on $\overline{AC}$ by drawing a circle centered on C. Work around the circle B four more times to construct the hexagon.