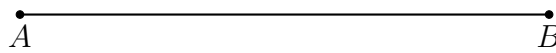


19 September 2019

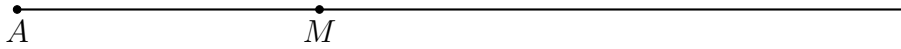
Name:

2.4 Do Now: Triangle Area

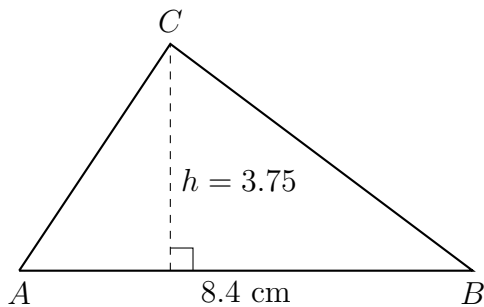
1. Complete the construction of a perpendicular bisector and fill in the blanks in the steps.
 - (a) Given the line segment _____.
 - (b) Construct circle A with radius AB .
 - (c) Construct circle _____ with radius _____.
 - (d) Label the intersections of the two circles P and Q .
 - (e) Draw line _____.
 - (f) Label the intersection of \overline{AB} and \overleftrightarrow{PQ} as point M .
 - (g) M is the midpoint of \overline{AB} and $\overline{AB} \perp \overleftrightarrow{PQ}$



2. Given the ray \overrightarrow{AM} . Mark the point B on \overrightarrow{AM} such that M is the midpoint of \overline{AB} , that is, $\overline{AM} \cong \overline{BM}$.



3. Find the area of $\triangle ABC$. The altitude h of the triangle is 3.75 centimeters and the base $AB = 8.4$ cm.



4. Given \overline{PQR} , with $PQ = 2x - 5$, $QR = x + 3$, and $PR = 19$. Find x . Complete all the steps for full credit.

5. Given that Q bisects \overline{PR} . $PQ = 2x - 5$, $QR = x + 3$. Find x . Complete all the steps for full credit.