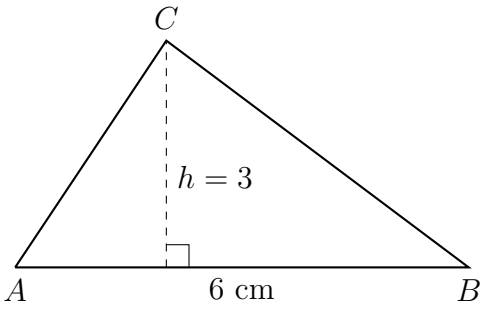
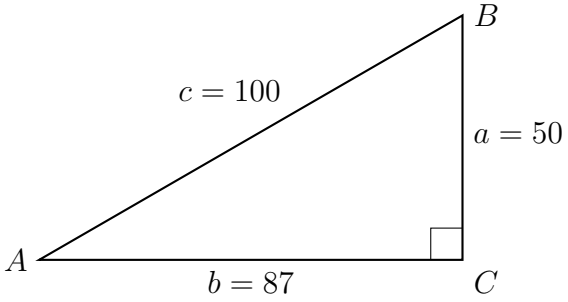
BECA / Dr. Huson / Geometry 02-Midpoint+distance Name:
pset ID: 19

2-3HW-Triangle-area

1. Find the area of $\triangle ABC$, $Area = \frac{1}{2}bh$. The altitude h of the triangle is 3 centimeters and the base $AB = 6$ cm.

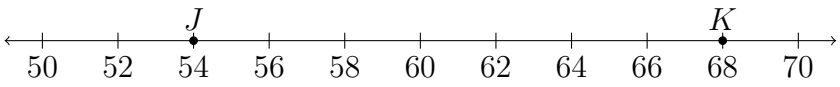


2. Find the area of $\triangle ABC$ shown below (not actual size) with $m\angle C = 90°$ and the lengths of the triangle's sides as $a = 50$, $b = 87$, and $c = 100$.



3. Draw and label a triangle $\triangle ABC$ with base $\overline{AB}$ 8 centimeters long and altitude of 5 centimeters. (show the altitude as a dotted line, and make sure it is perpendicular to the base)

4. Given $\overleftrightarrow{JK}$ as shown on the number line.



What is the midpoint between the points J and K?

5. Given $\overline{RST}$, S bisects $\overline{RT}$, $RS = 17x - 10$, $ST = 13x - 2$. Find RT. Complete all the steps for full credit.

6. Given $\overline{FGHI}$, $FG = 8\frac{1}{6}$, $GH = 12\frac{1}{3}$, and $HI = 5\frac{1}{2}$. (diagram not to scale)

Find FI.