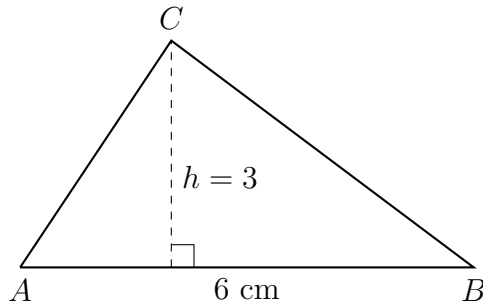
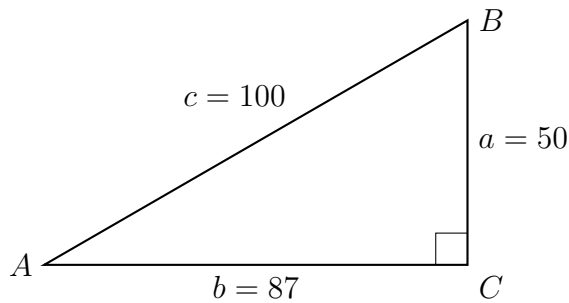


**2.3 Homework: Triangle area formula**

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.

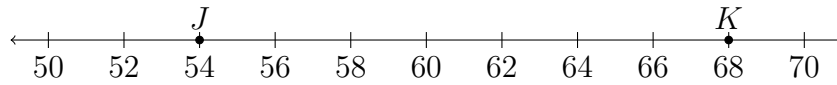


2. Find the area of  $\triangle ABC$  shown below (not actual size) with  $m\angle C = 90^\circ$  and the lengths of the triangle's sides as  $a = 50$ ,  $b = 87$ , and  $c = 100$ .



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  $FI$ .

