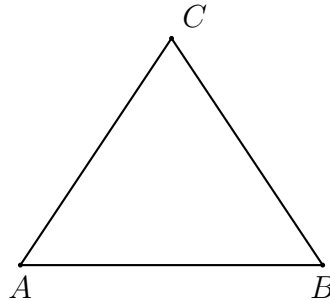
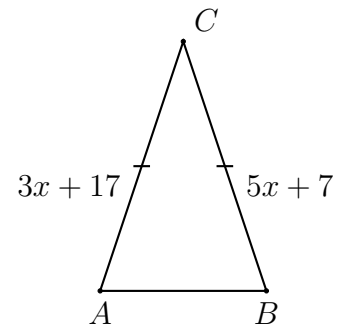


5.8 Classwork: Isosceles triangles

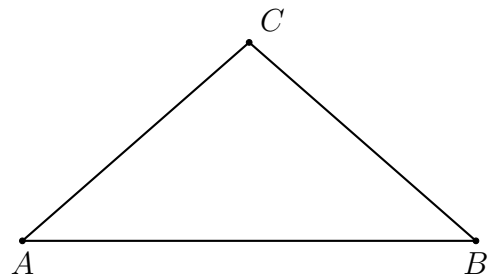
1. Given isosceles $\triangle ABC$ with $\overline{AC} \cong \overline{BC}$. On the diagram mark the congruent line segments with tick marks.



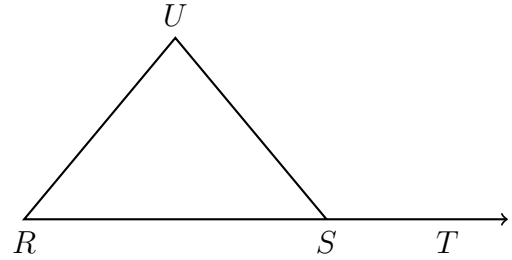
2. Given $\triangle ABC$ with $\overline{AC} \cong \overline{BC}$. $AC = 5x + 7$ and $BC = 3x + 17$. Find AC .



3. Given isosceles $\triangle ABC$ with $\overline{AC} \cong \overline{BC}$, $m\angle A = 12x$, and $m\angle B = 42$. Find x . Find $m\angle C$.



4. Given isosceles $\triangle RSU$ with $\overline{UR} \cong \overline{US}$. If $m\angle UST = 130$ find $m\angle U$.



5. Given parallel lines $\overleftrightarrow{AB} \parallel \overleftrightarrow{CDE}$ with $\overline{AC} \cong \overline{AD}$. If $m\angle BAD = 70$ find $m\angle ACD$.

