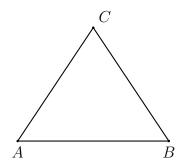
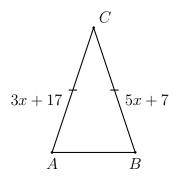
5.8 Classwork: Isosceles triangles

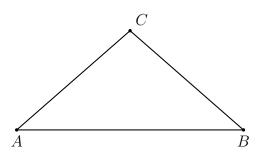
1. Given isosceles $\triangle ABC$ with $\overline{AC}\cong \overline{BC}$. On the diagram mark the congruent line segments with tick marks.



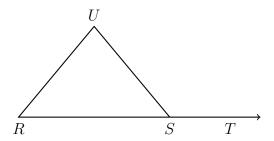
2. Given $\triangle ABC$ with $\overline{AC} \cong \overline{BC}$. AC = 5x + 7 and BC = 3x + 17. Find AC.



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 $\overrightarrow{AB} \parallel \overleftarrow{CDE}$ with $\overrightarrow{AC} \cong \overrightarrow{AD}$. If $m \angle BAD = 70$ find $m \angle ACD$.

