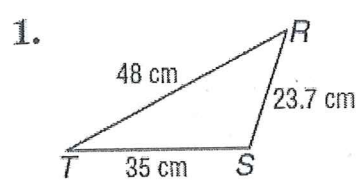
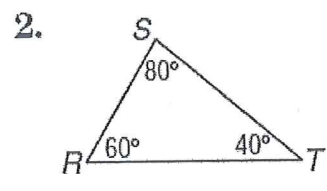


Triangle Inequalities Homework #2

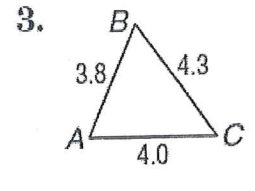
List the angles or sides in order from **least to greatest** measure.



$\angle T, \angle R, \angle S$

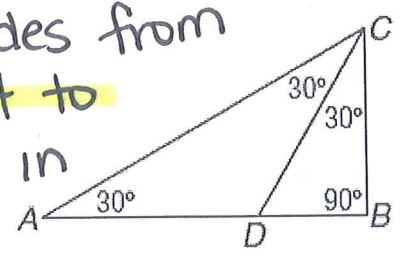


$\overline{RS}, \overline{ST}, \overline{RT}$



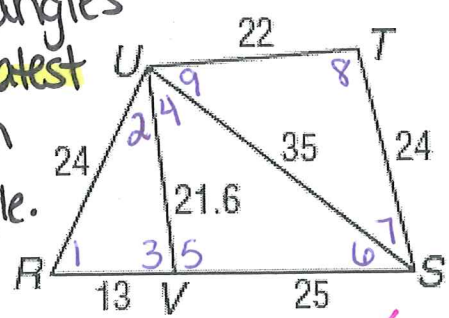
$\angle C, \angle B, \angle A$

4. List sides from **greatest to least** in each triangle.



$\triangle CDB: \overline{DC}, \overline{CB}, \overline{DB}$
 $\triangle ADC: \overline{AC}, \overline{AD} = \overline{DC}$
 $\triangle ABC: \overline{AC}, \overline{AB}, \overline{CB}$

5. List angles from **greatest to least** in each triangle.



$\underbrace{13 \quad 25}_{38}$

$\triangle URV: \angle 3, \angle 1, \angle 2$
 $\triangle UVS: \angle 5, \angle 4, \angle 6$
 $\triangle UTS: \angle 8, \angle 9, \angle 7$
 $\triangle URS: \angle 2 + \angle 4, \angle 1, \angle 6$

Advanced Triangle Practice Homework

Identify the indicated type of triangles if $\overline{AB} \cong \overline{AD} \cong \overline{BD} \cong \overline{DC}$, $\overline{BE} \cong \overline{ED}$, $\overline{AB} \perp \overline{BC}$, and $\overline{ED} \perp \overline{DC}$.

Use figure one for #1-4.

1. Right
 $\triangle ABC, \triangle CDE$

2. Obtuse
 $\triangle BED, \triangle BDC$

3. Scalene
 $\triangle ABC, \triangle CDE$

4. Isosceles
 $\triangle ABD, \triangle BED,$
 $\triangle BDC$

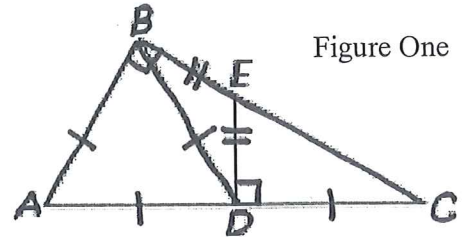


Figure One

Use figure two for #5 - 8.

5. Right
 $\triangle ABE, \triangle BCE$

6. Obtuse
 $\triangle BDE$

7. Scalene
 $\triangle ABE, \triangle BCE$

8. Isosceles
 $\triangle BDE$

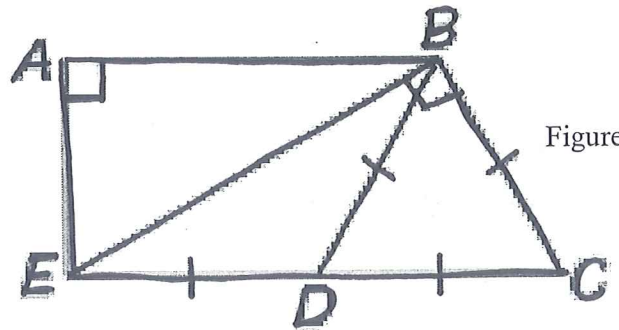


Figure Two

Use the Triangle Sum Theorem to find the numbered angles listed below each figure.

