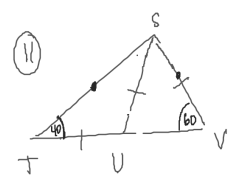
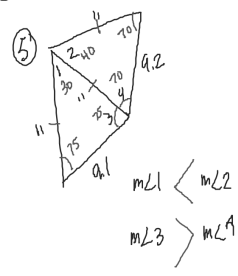
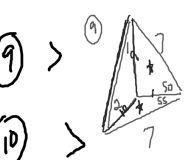
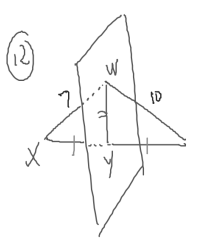


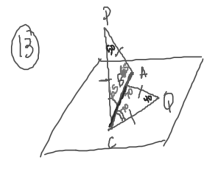
- ① $m\angle 1 > m\angle 2$ SSS Ineq.
- ② $TR > VS$ SAS Ineq.
- ③ $>$
- ④ $<$
- ⑤ $<$
- ⑥ $<$
- ⑦ $<$
- ⑧ $<$
- ⑨ $>$
- ⑩ $>$



- 1. $TU = UV = SV$
 - 2. $\angle SUV > \angle T$
 - 3. $\angle SUV = \angle SVU$
 - 4. $\angle SVU > \angle T$
 - 5. $ST > SV$
1. GIVEN
 2. Ext. \angle Ineq. Th
 3. ITT
 4. SUB
 5. If one \angle is larger than a 2nd \angle then the side opposite larger \angle is greater than side opp smaller \angle



- 1. $PQ \perp$ bisects \overline{XZ} $WZ > WX$ 1. GIVEN
- 2. $\overline{XY} \cong \overline{YZ}$ 2. Def. of seg. bis
- 3. $\overline{XW} \cong \overline{YW}$ 3. Reflexive
- 4. $\angle WYZ > \angle WYX$ 4. SSS Ineq.



- 1. $\overline{PA} = \overline{PC} = \overline{QC} = \overline{QB}$ 1. GIVEN
- 2. $CB + BA = CA$ 2. Seg. Add. Post
- 3. $\angle A > \angle B$ 3. A prop. of Ineq
- 4. $\angle Q < \angle P$ 4. SSS Ineq. \cong ITT
- 5. $\angle A = \angle PCA$ $\angle BCA = \angle CBQ$
- 6. $\angle P + \angle A + \angle PCA = 180$ $\angle Q + \angle QBC + \angle QCB = 180$ 6. Sum of \angle 's in $\triangle = 180$
- 7. $\angle P = 180 - (\angle A + \angle PCA)$ $\angle Q = 180 - (\angle QBC + \angle QCB)$ 7. subst. prop. of =
- 8. $180 - (\angle QBC + \angle QCB) < 180 - (\angle A + \angle PCA)$ 8. Sub
- 9. $-(\angle QBC + \angle QCB) < -(\angle A + \angle PCA)$ 9. subtraction prop. of =
- 10. $\angle QBC + \angle QCB > \angle A + \angle PCA$ 10. inv. prop. of =
- 11. $2\angle QCB > 2\angle PCA$ 11. sub
- 12. $\angle QCB > \angle PCA$ 12. inv. prop. of =