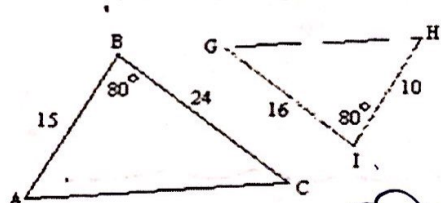


Similar Triangles Practice

State whether each pair of triangles are similar (by AA, SSS, or SAS) or not similar. If they are similar, list corresponding congruent angles and/or proportional sides, and complete the similarity statement. If they are not similar, explain why.

1. $\triangle BCA \sim \triangle IGH$



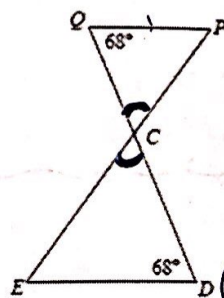
$$S \frac{10}{15} = \frac{2}{3}$$

$$A \angle B \cong \angle I \text{ (given)}$$

$$S \frac{16}{24} = \frac{2}{3}$$

Similar

2. $\triangle QPC \sim \triangle DEC$

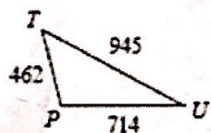
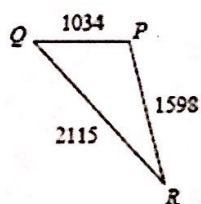


$$A \angle Q \cong \angle D \text{ (given)}$$

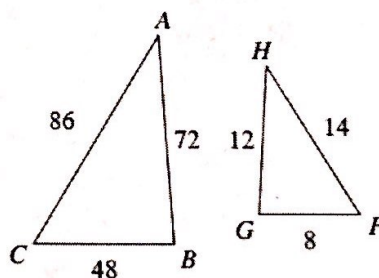
$$A \angle C \cong \angle C \text{ (vertical)}$$

Similar

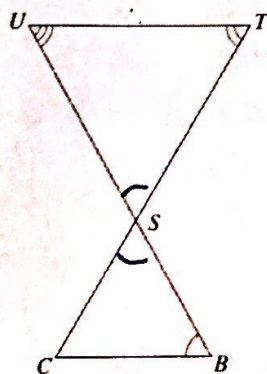
3. $\triangle TPU \sim \triangle$



4. $\triangle CAB \sim \triangle$



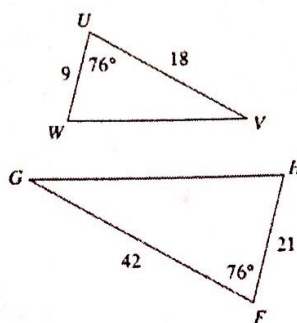
5. $\triangle UTS \sim \triangle$ not similar



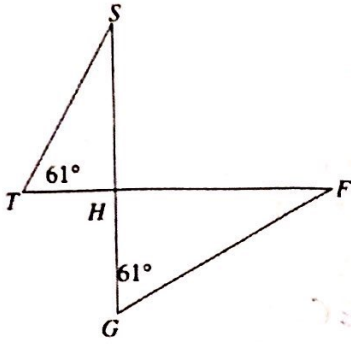
$$A \angle S \cong \angle S \text{ (vertical)}$$

$$A \text{ (crossed out)}$$

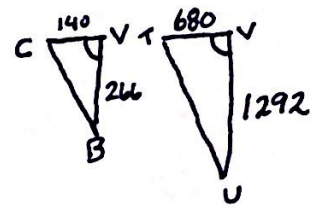
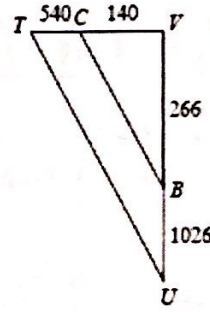
6. $\triangle UWV \sim \triangle$



7. $\triangle TSH \sim \triangle$



8. $\triangle TVU \sim \triangle CVB$



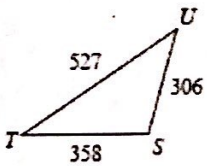
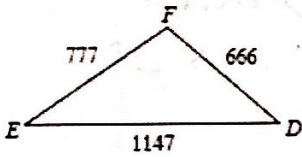
$$S \frac{140}{680} = \frac{7}{34}$$

A $\angle V \cong \angle V$ (reflexive)

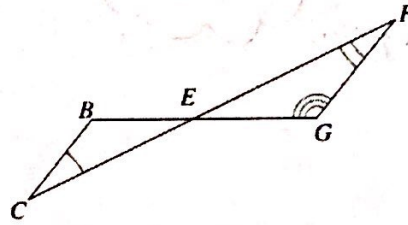
$$S \frac{266}{1292} = \frac{7}{34}$$

Similar

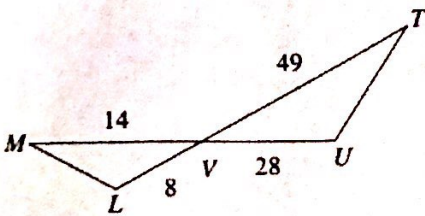
9. $\triangle EFD \sim \triangle$



10. $\triangle CBE \sim \triangle$



11. $\triangle MLV \sim \triangle$



12. $\triangle DUE \sim \triangle$

