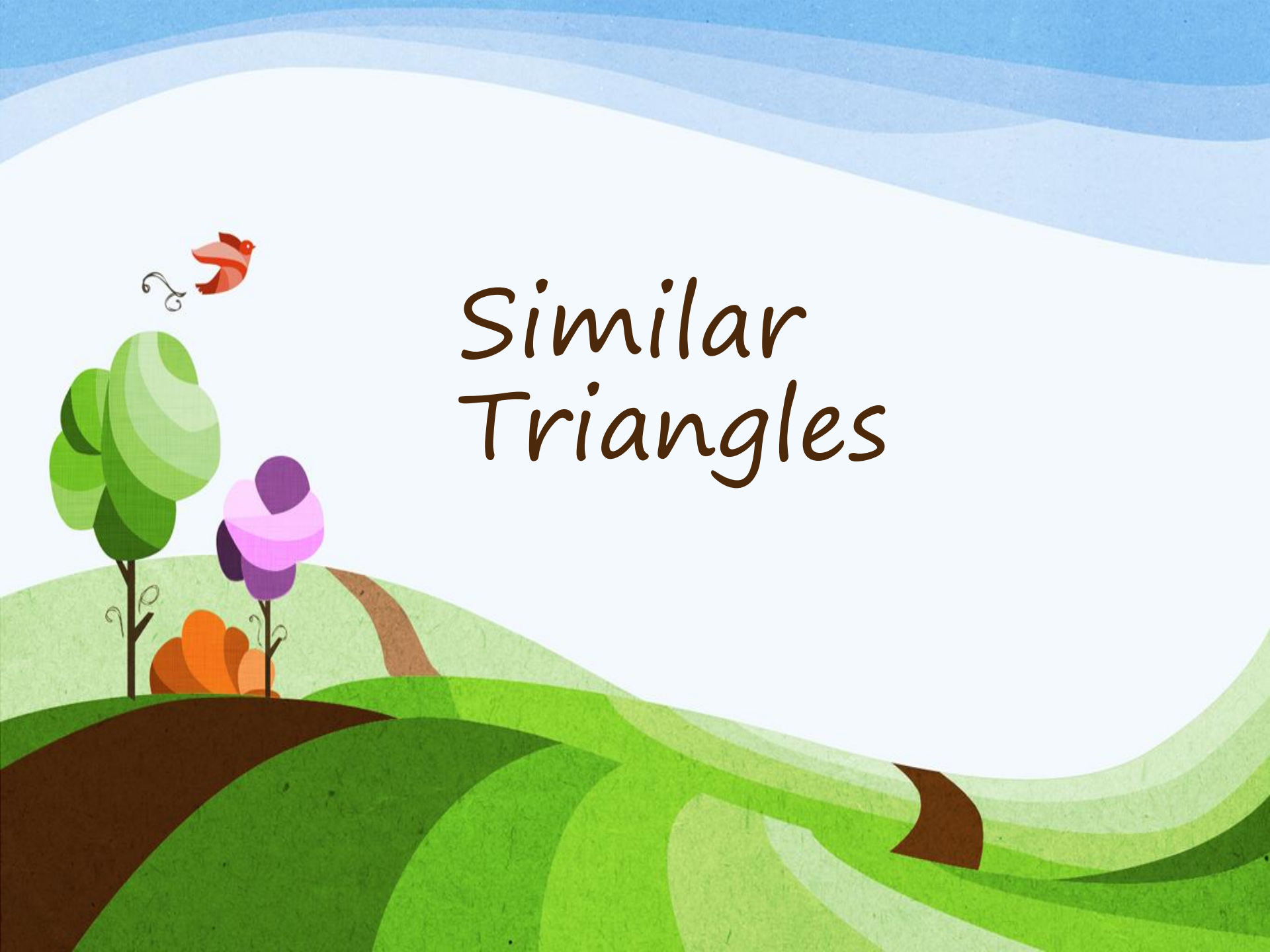
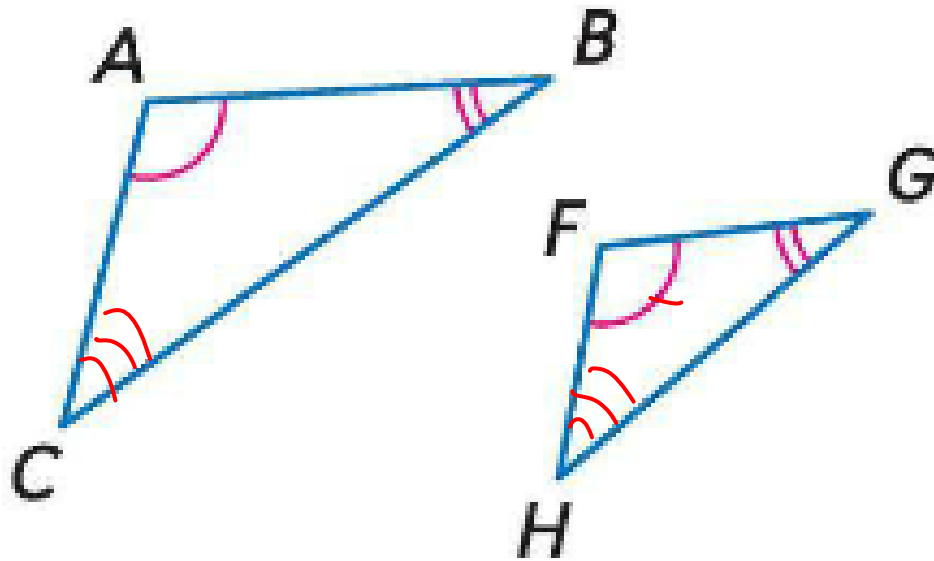


Similar Triangles



Angle-Angle (AA) Similarity

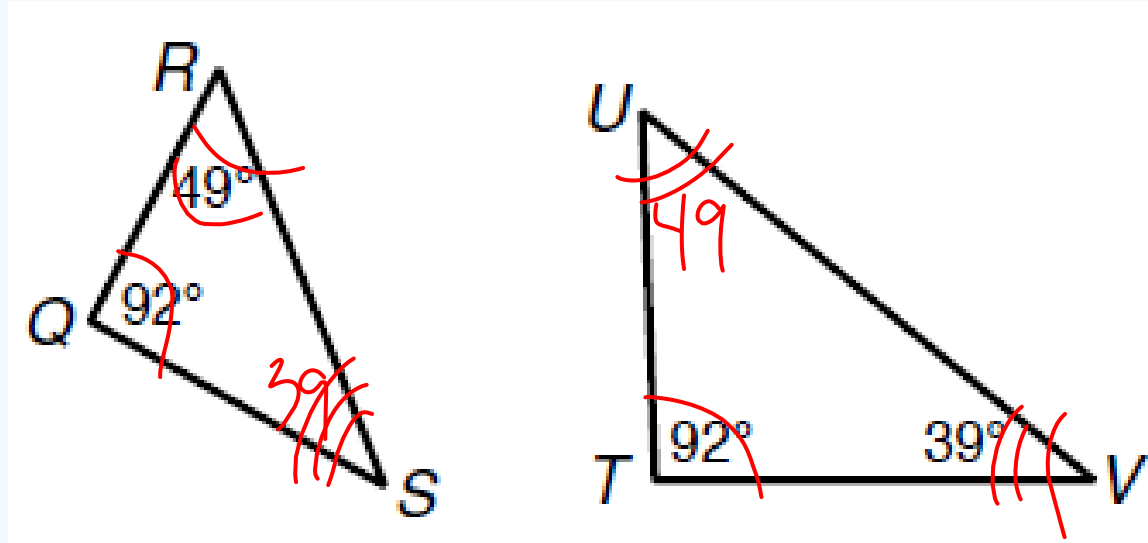
- If two angles of one triangle are congruent to two angles of another triangle, then the triangles are similar.



Examples

YES - 9
NO - 8
NOT SURE -

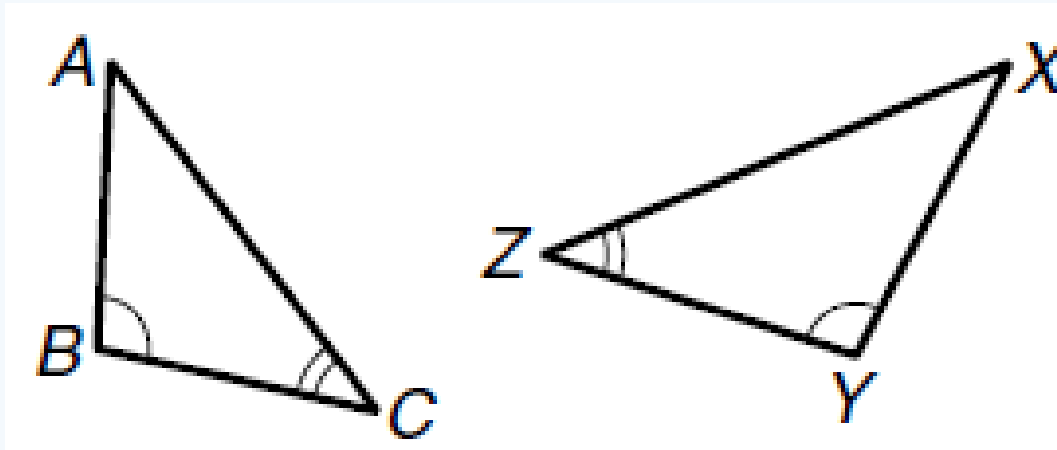
- Determine whether each pair of triangles is similar. Justify your answer.



YES, AA

Examples

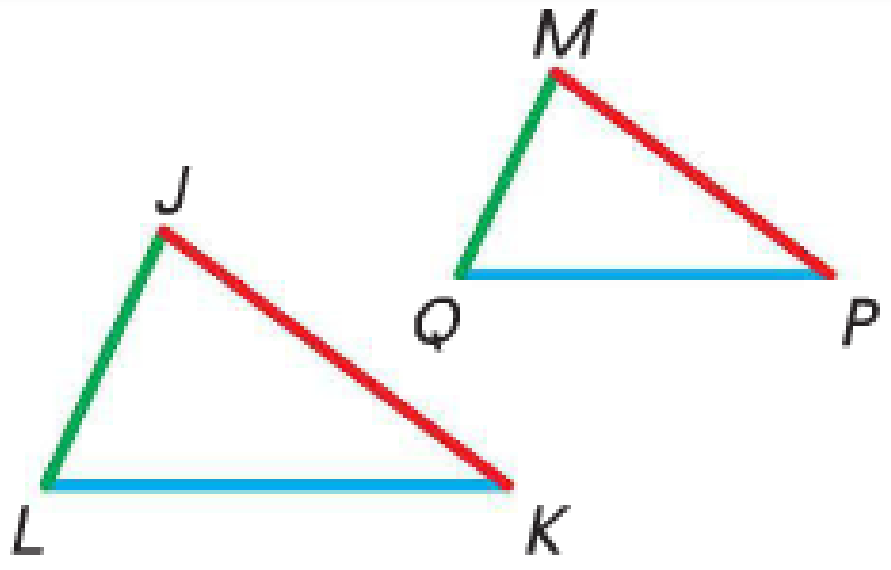
- Determine whether each pair of triangles is similar. Justify your answer.



YES, AA

Side-Side-Side (SSS) Similarity

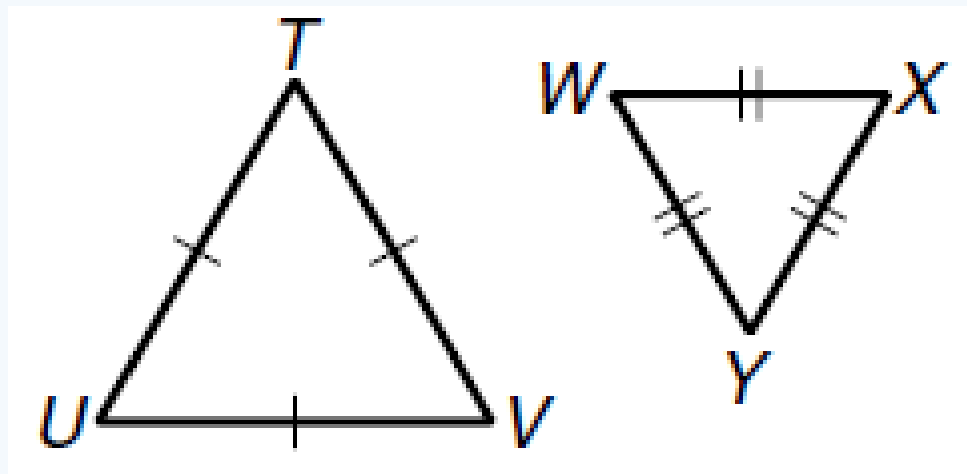
- If the corresponding side lengths of two triangles are proportional, then the triangles are similar.



Examples

- Determine whether each pair of triangles is similar. Justify your answer.

yes, SSS

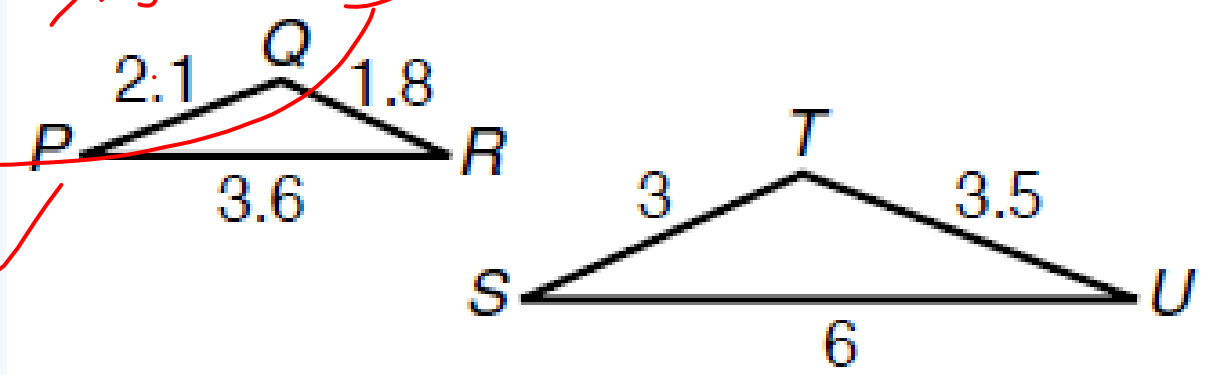


Examples

- Determine whether each pair of triangles is similar. Justify your answer.

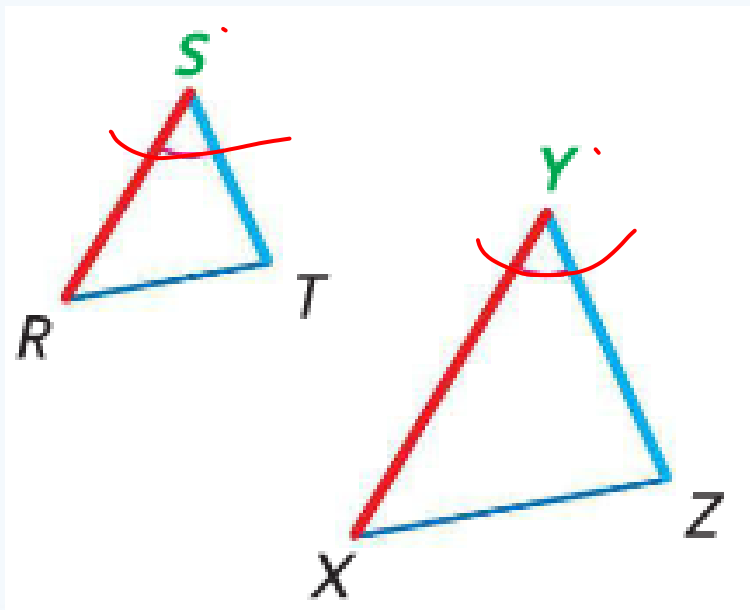
$$\frac{3.6}{6} \quad \frac{2.1}{3.5} \quad \frac{1.8}{3}$$

YES, SSS



Side-Angle-Side (SAS) Similarity

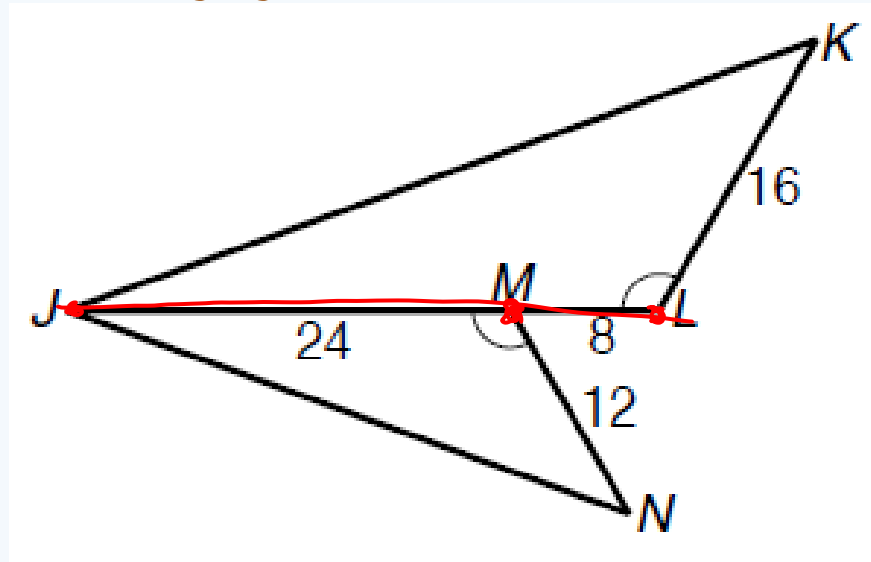
- If the lengths of two sides of one triangle are proportional to the lengths of two corresponding sides of another triangle and the included angles are congruent, then the triangles are similar.



Examples

- Determine whether each pair of triangles is similar. Justify your answer.

$$\frac{16}{12} \neq \frac{32}{24}$$
$$384 = 384$$



YES
SAS

Examples

- Determine whether each pair of triangles is similar. Justify your answer.

$$\frac{27}{18} \neq \frac{24}{16}$$

YES, SAS

$$432 = 432$$

