

Geometry

Proving Triangles Similar Practice

Determine if each pair of triangles is similar. Justify your decision.

	Diagram	Justification	AA, SAS, SSS, Not Similar
1		$\frac{16}{39} \neq \frac{16}{40}$	not similar
2		$\frac{8}{48} = \frac{1}{6}$ $\frac{14}{84} = \frac{1}{6}$ $\frac{12}{72} = \frac{1}{6}$	SSS Similarity
3		$\frac{14}{49} = \frac{8}{28}$	SAS Similarity
4			AA Similarity
5		only 1 \cong angle pair	not similar

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6			not similar
7		$\frac{15}{42} = \frac{5}{14}$ $\frac{30}{84} = \frac{5}{14}$ $\frac{25}{70} = \frac{5}{14}$	SSS Similarity
8		$\frac{9}{42} = \frac{3}{14} \checkmark$ $\frac{18}{42} = \frac{3}{7} \checkmark$	SAS similarity
9		$\frac{44}{121} = \frac{4}{11}$ $\frac{32}{88} = \frac{4}{11}$ $\frac{52}{143} = \frac{4}{11}$	SSS Similarity
10			AA Similarity