

PROVING TRIANGLE SIMILARITY HOMEWORK

Determine whether each pair of triangles are similar (AA, SAS, or SSS). Justify your solution.

		AA, SAS, SSS, or Not Similar	Justification
1		AA	2 \cong angles
2		SSS	$\frac{2.8}{7} = \frac{2}{5}$ $\frac{4}{10} = \frac{2}{5}$ $\frac{8}{20} = \frac{2}{5}$
3		not similar	Included $<$ not \cong
4		not similar	Corresponding Sides not proportional
5		SSS	$\frac{8\frac{1}{3}}{25} = \frac{7}{21} = \frac{3}{9}$
6		AA	Isosceles Δ means base angles \cong
7		AA	Missing $<$'s are 20 and 40 so all \cong
8		AA	parallel lines create \cong Corresponding $<$'s