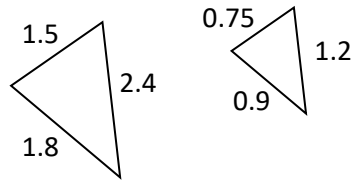
Similarities and Isometries - Supplemental Question 1 with Solutions

In which set of figures below are the triangles **not** similar?

Compare "like sides.

A)

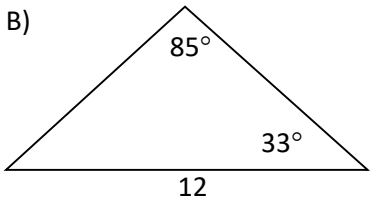


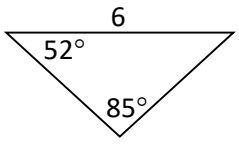
$\frac{1.5}{0.75} = 2$

$\frac{1.8}{0.9} = 2$ = Similar by SSS

$\frac{2.4}{1.2} = 2$

B)





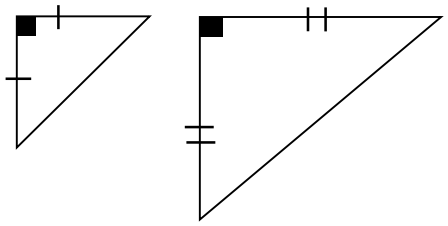
$180^\circ - 85^\circ - 33^\circ = 62^\circ$

Could have been similar

by AA but $62^\circ \neq 52^\circ$

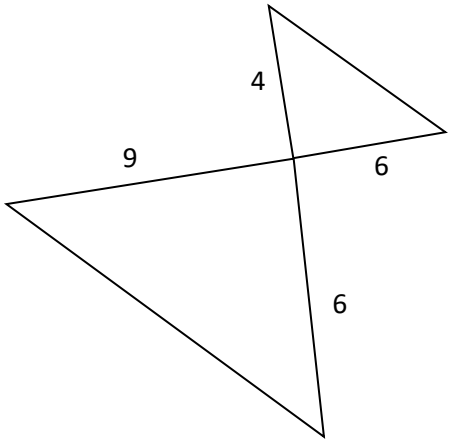
so **not** similar.

C)



Similar by SAS.
Two sides and an enclosed angle that is congruent.

D) Central angle is identical (vertically opposite)



$\frac{6}{4} = 1.5$

$\frac{9}{6} = 1.6$

$\therefore$ Similar by SAS