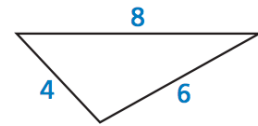
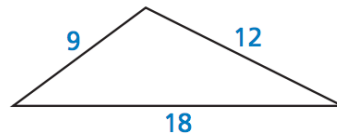
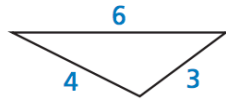
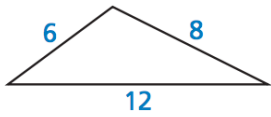


Name:

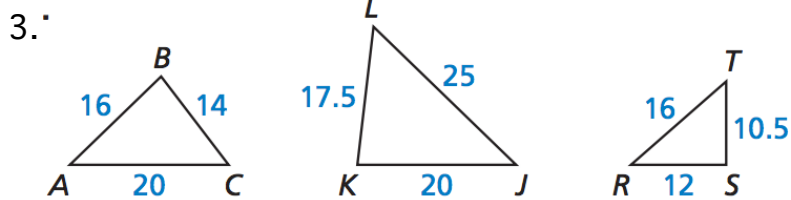
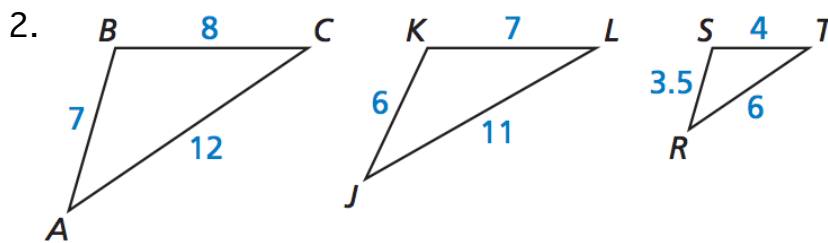
Date:

8.3 Proving Triangle Similarity by SSS and SAS

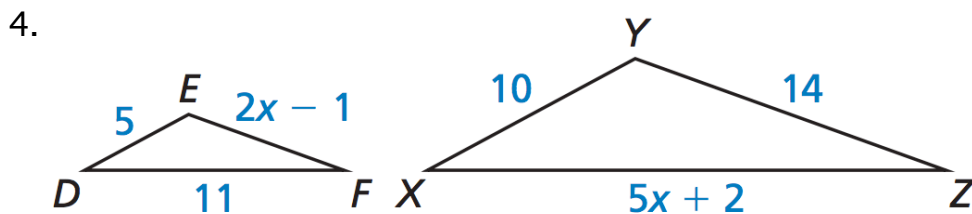
1. Which triangle does not belong with the other three? Explain your reasoning.



Determine whether $\triangle JKL$ or $\triangle RST$ is similar to $\triangle ABC$.



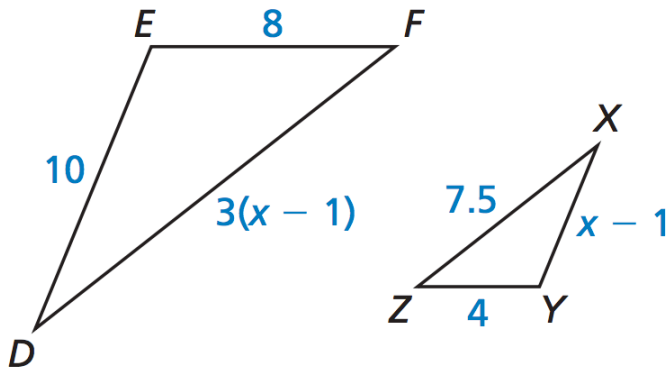
Find the value of x that makes $\triangle DEF \sim \triangle XYZ$.



Name:

Date:

5.



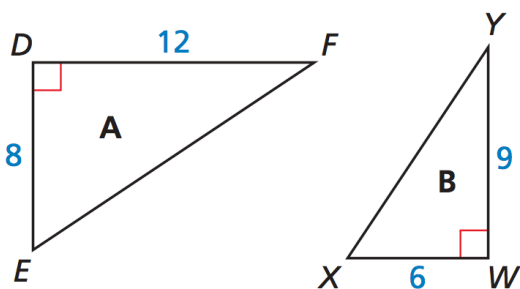
Verify that $\triangle ABC \sim \triangle DEF$. Find the scale factor of $\triangle ABC$ to $\triangle DEF$.

6. $\triangle ABC$: $BC = 18$, $AB = 15$, $AC = 12$
 $\triangle DEF$: $EF = 12$, $DE = 10$, $DF = 8$

7. $\triangle ABC$: $AB = 10$, $BC = 16$, $CA = 20$
 $\triangle DEF$: $DE = 25$, $EF = 40$, $FD = 50$

Determine whether the two triangles are similar. If they are similar, write a similarity statement and find the scale factor of triangle B to triangle A.

8.



9.

