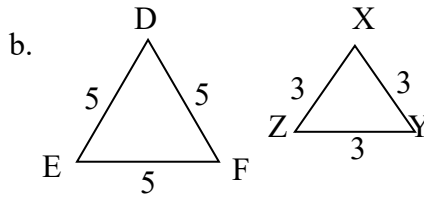
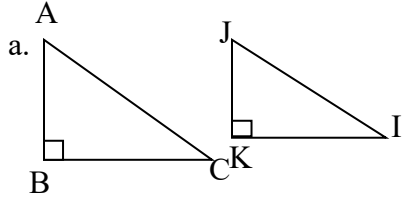


Directions: Show your work. Round to the nearest tenth, if necessary.

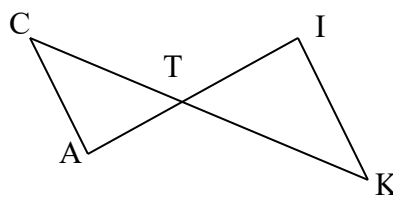
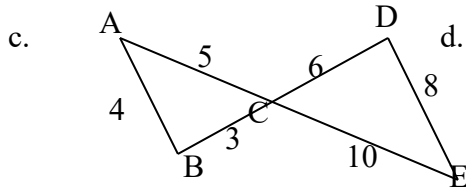
1. Determine whether the triangles are similar. If so, write the similarity statement and Name the postulate or theorem that can be used to prove the triangles are similar. (Not drawn to scale.)



yes / no if yes Δ _____ \sim Δ _____ yes / no if yes Δ _____ \sim Δ _____

Why?

Why?

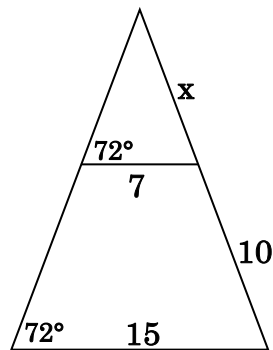


yes / no if yes Δ _____ \sim Δ _____ yes / no if yes Δ _____ \sim Δ _____

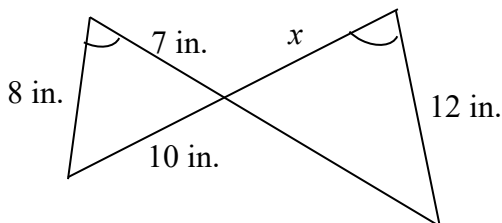
Why?

Why?

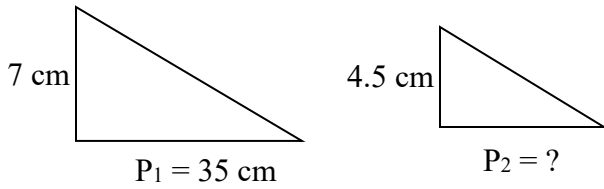
2. Find x .



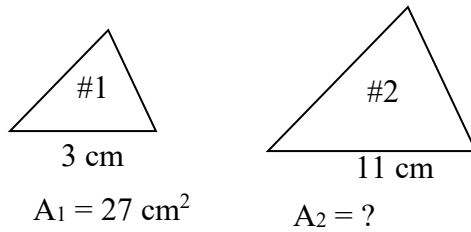
3. Solve for x . Round to the nearest tenth, if necessary.



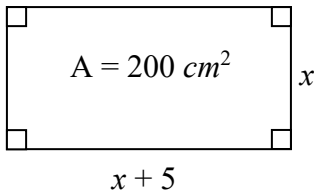
4. Find the perimeter of triangle #2 (P_2) given the similar triangles.



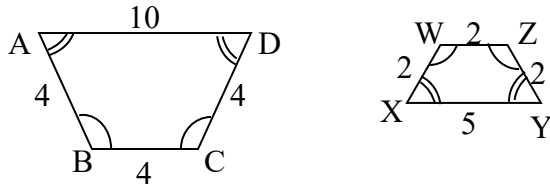
5. Find the area of triangle #2 (A_2) given the similar triangles.



9. Find x . Round to the nearest tenth, if necessary.



10. Determine whether the polygons are similar. If so, write a similarity statement and give the scale factor. If not, explain.



yes / no if yes : _____ ~ _____

If yes : scale factor:

11. The shadow of a 4 foot child is 11 feet long. Find the height of a tree next to the child if the tree is casting a shadow of 75 feet long.