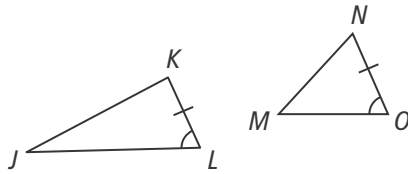


7-3 Additional Practice

Proving Triangles Similar

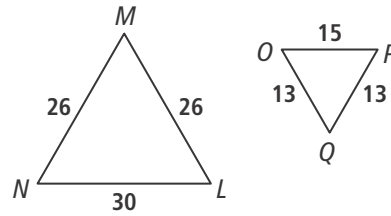
For Exercises 1–4, if the two triangles are similar, state why they are similar. If not, state that they are not similar.

1.



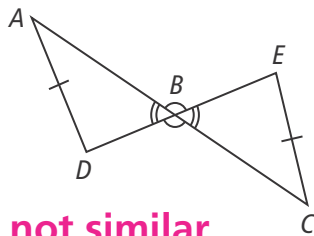
not similar

2.



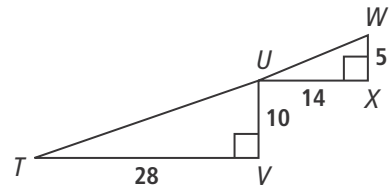
SSS ~

3.



not similar

4.



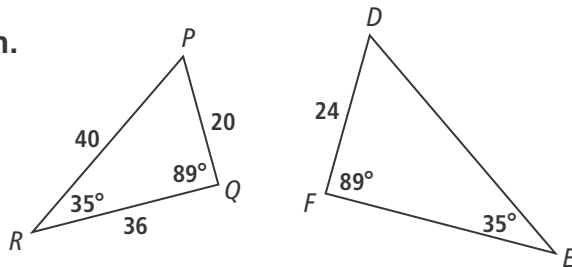
SAS ~

For Exercises 5 and 6, use the triangles shown.

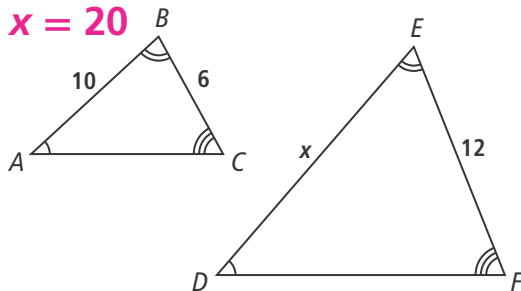
5. What is FE ? **43.2**

6. What is DE ? **48**

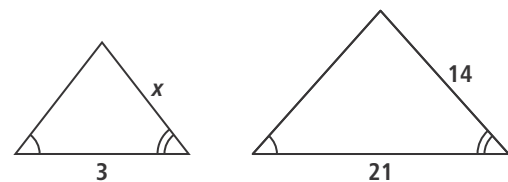
For Exercises 7 and 8, what is the value of x ?



7. **$x = 20$**

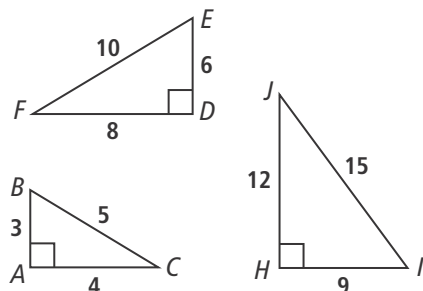


8.

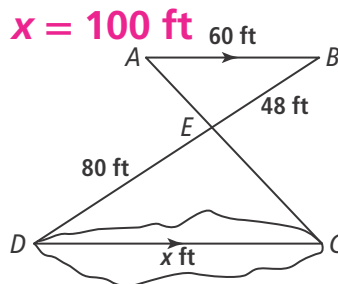


$x = 2$

9. Are triangles ABC , DEF , and HIJ similar? Explain. **yes; by SSS ~**



10. The width of the pond shown is x ft. What is the value of x ?



$x = 100$ ft