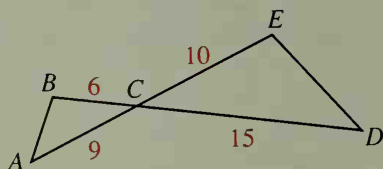


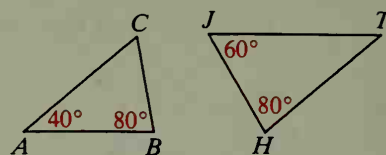
Written Exercises

Name two similar triangles. What postulate or theorem justifies your answer?

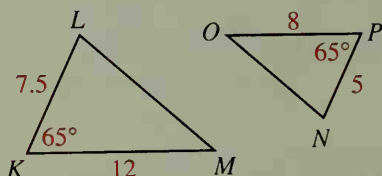
A 1.



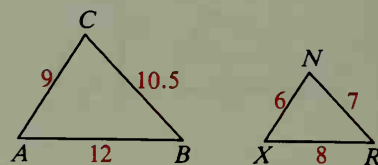
2.



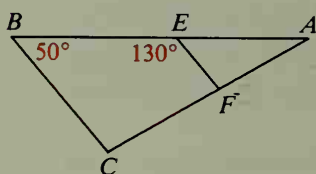
3.



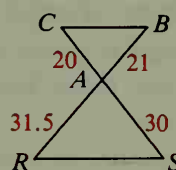
4.



5.



6.



One triangle has vertices A , B , and C . Another has vertices T , R , and I . Are the two triangles similar? If so, state the similarity and the scale factor.

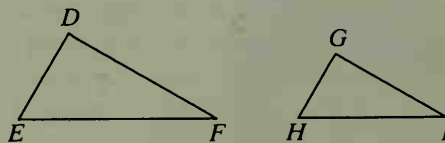
	AB	BC	AC	TR	RI	TI
7.	6	8	10	9	12	15
8.	6	8	10	12	22	16
9.	6	8	10	20	25	15
10.	6	8	10	10	7.5	12.5

11. Given: $\frac{DE}{GH} = \frac{DF}{GI} = \frac{EF}{HI}$

Prove: $\angle E \cong \angle H$

12. Given: $\frac{DE}{GH} = \frac{EF}{HI}$; $\angle E \cong \angle H$

Prove: $\frac{EF}{HI} = \frac{DF}{GI}$



B

13. Given: $\frac{VW}{VX} = \frac{VZ}{VY}$

Prove: $\overline{WZ} \parallel \overline{XY}$

14. Given: $\frac{VW}{VY} = \frac{VZ}{VX}$

Which one(s) of the following *must* be true?

(1) $\triangle VWZ \sim \triangle VXY$

(2) $\overline{WZ} \parallel \overline{XY}$

(3) $\angle 1 \cong \angle Y$

