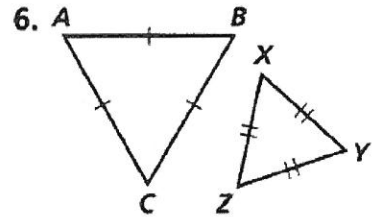
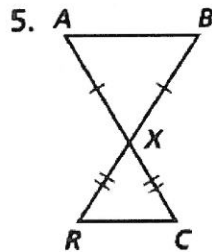
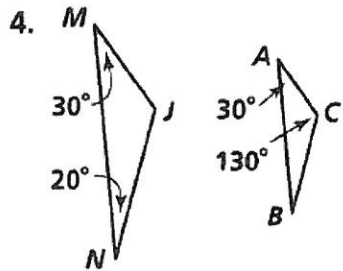
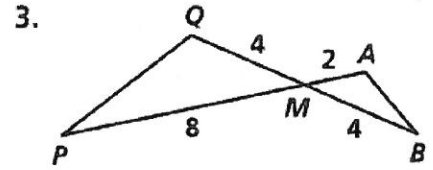
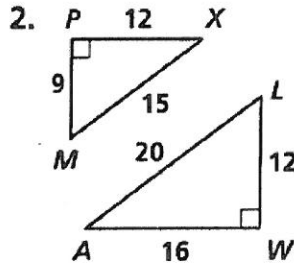
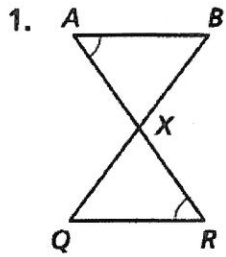


Name: _____

8.3 Practice Problems

Explain why the triangles are similar. Write a similarity statement for each pair.

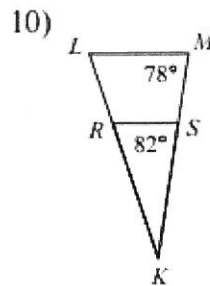
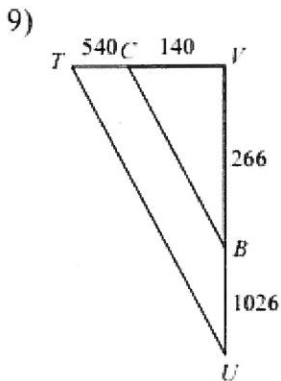


In Exercises 7 and 8, verify that $\triangle ABC \sim \triangle DEF$. Find the scale factor of $\triangle ABC$ to $\triangle DEF$.

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

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

State if the triangles are similar and the theorem that proves they are.

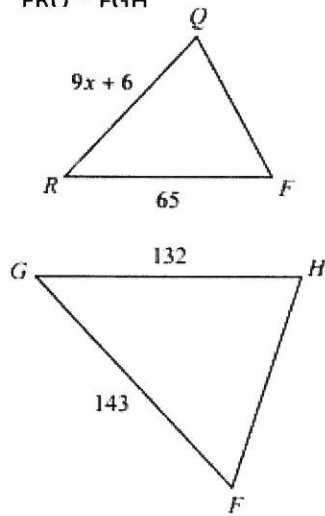


- A) similar; SSS similarity
 B) similar; SAS similarity
 C) similar; AA similarity
 D) not similar

- A) similar; AA similarity
 B) similar; SAS similarity
 C) similar; SSS similarity
 D) not similar

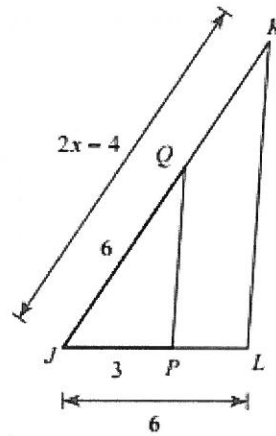
Solve for x . The triangles in each pair are similar.

11) $FRO \sim FGH$



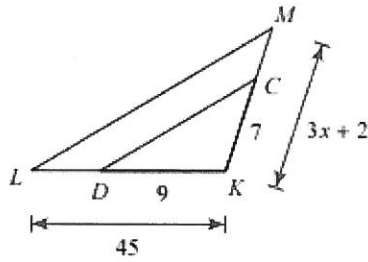
- A) 9 B) 10
C) 14 D) 6

12)



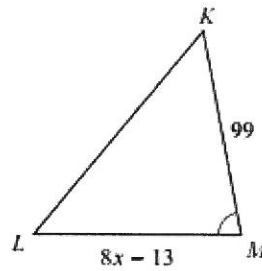
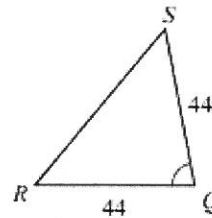
- A) 8 B) 3
C) 6 D) 4

13)



- A) 13 B) 8
C) 11 D) 6

14)



- A) 11 B) 4
C) 8 D) 14

15. Find the perimeter of both triangles given $ABC \sim EDF$

