

Similar Figures In-Class Review

Name: _____

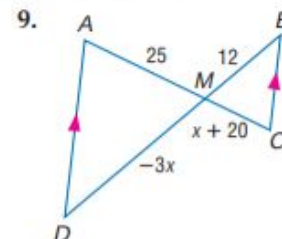
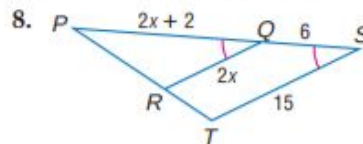
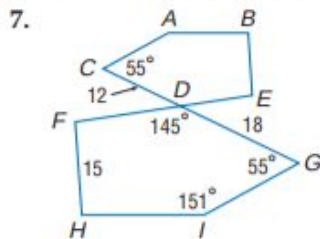
Solve each proportion.

4. $\frac{x+1}{3x-1} = \frac{2x+2}{4x}$

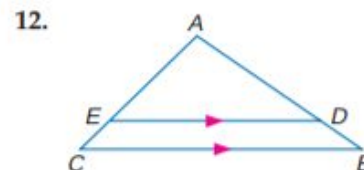
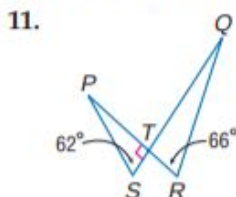
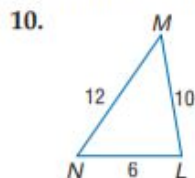
5. $\frac{4x}{3} = \frac{108}{x}$

6. $\frac{k+2}{7} = \frac{k-2}{3}$

Each pair of polygons is similar. Write a similarity statement and find the scale factor.

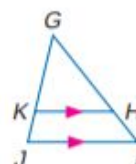


Determine whether each pair of triangles is similar. Justify your answer.

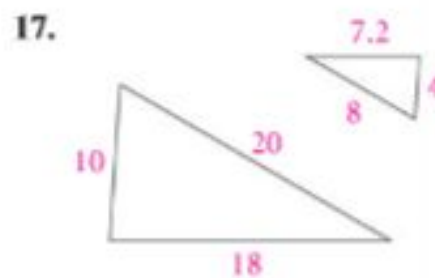
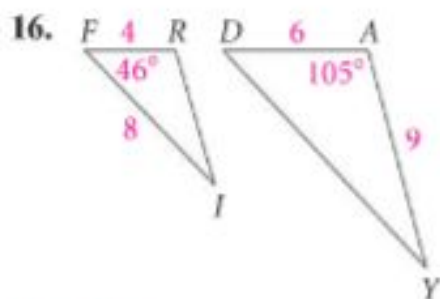


Refer to the figure at the right.

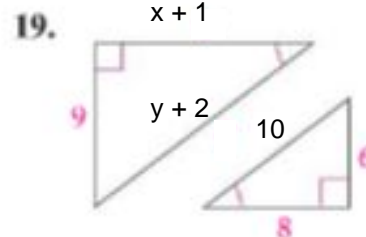
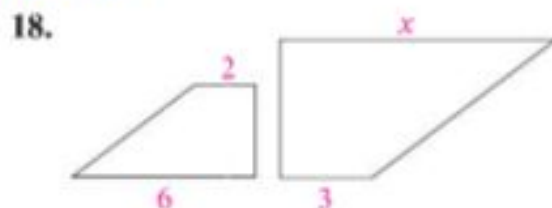
13. Find KJ if GJ = 8, GH = 12, and HI = 4.
14. Find GK if GI = 14, GH = 7, and KJ = 6.
15. Find GI if GH = 9, GK = 6, and KJ = 4.



The triangles are similar. Find the similarity ratio of the first to the second.



Algebra The polygons are similar. Find the value of each variable.



Are the triangles similar? If so, write the similarity statement and name the postulate or theorem you used. If not, explain.

