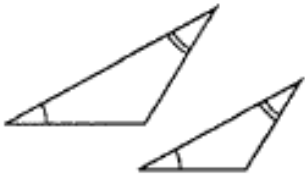


Name: _____

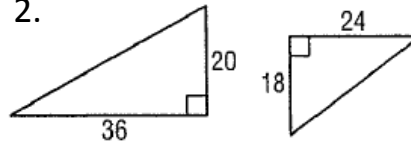
7.3 TRIANGLE SIMILARITY HOMEWORK

For #1-6, determine whether the pairs of triangles are similar by AA Similarity.

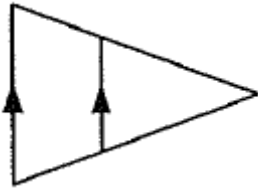
1.



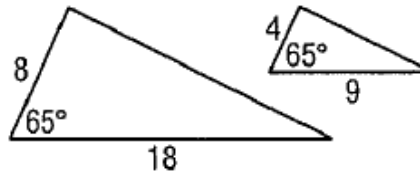
2.



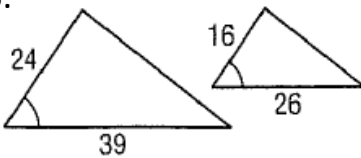
3.



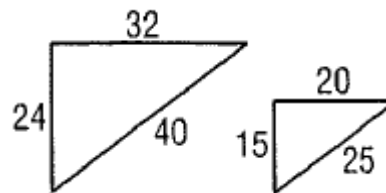
4.



5.



6.



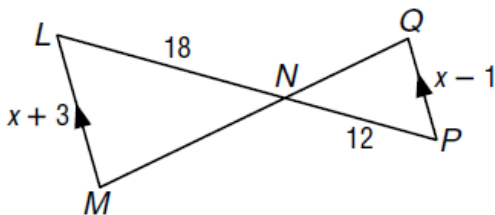
For #7-10, the two triangles given are similar. Complete the following for each problem:

A. Write the similarity statement.

B. Find x .

C. Find the measure of the indicated side

7. \overline{LM} and \overline{QP}

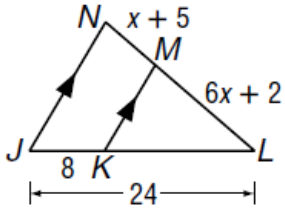


a) $\triangle LNM$ _____

b) $x =$ _____

c) $LM =$ _____, $QP =$ _____

8. \overline{NL} and \overline{ML}

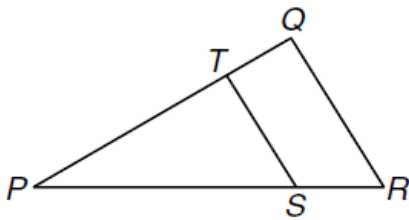


a) ΔLMK _____

b) $x =$ _____

c) $NL =$ _____, $ML =$ _____

9. If $\overline{TS} \parallel \overline{QR}$, $TS = 6$, $PS = x + 7$, $QR = 8$, and $SR = x - 1$, find PS and PR .

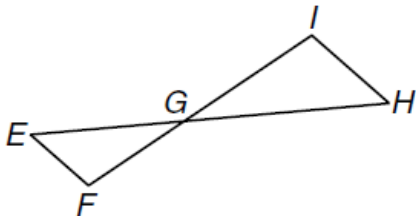


a) ΔPQR _____

b) $x =$ _____

c) $PS =$ _____, $PR =$ _____

10. If $\overline{EF} \parallel \overline{HI}$, $EF = 3$, $EG = x + 1$, $HI = 4$, and $HG = x + 3$, find EG and HG .



a) ΔEFG _____

b) $x =$ _____

c) $EG =$ _____, $HG =$ _____