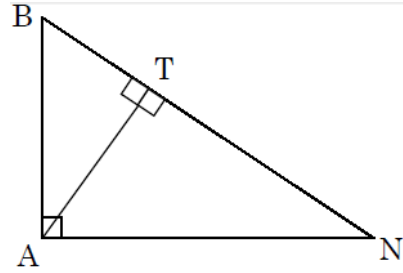


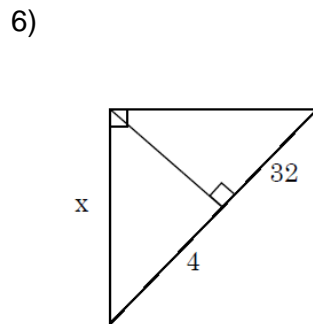
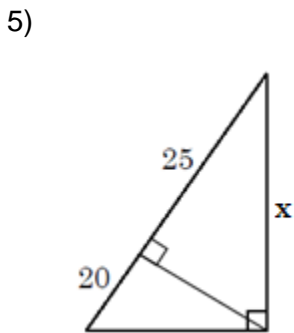
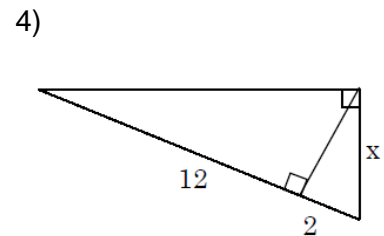
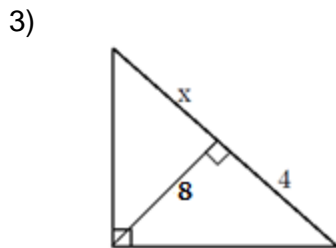
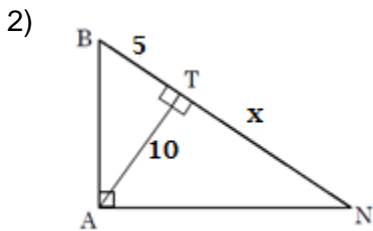
1) If an altitude is drawn to the hypotenuse of triangle BAN below, then name and redraw the 3 similar triangles created.



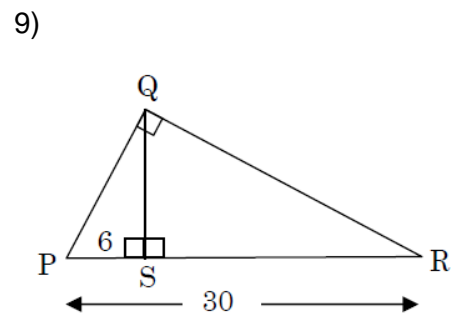
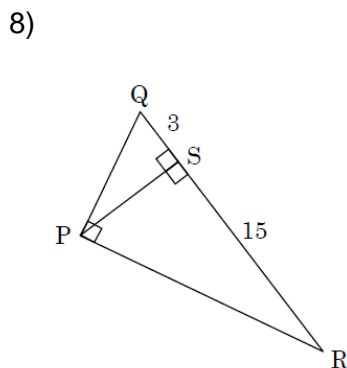
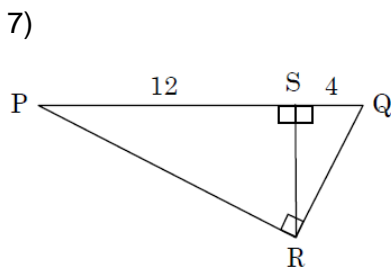
Write the similarity statement comparing the three triangles

$\Delta$  \_\_\_\_\_  $\sim$   $\Delta$  \_\_\_\_\_  $\sim$   $\Delta$  \_\_\_\_\_

Determine the missing value "x" below:



For 7-9 Set up and solve for the length of the altitude of right triangle PQR.



Determine the geometric mean of the following numbers.

10) 5 and 8

11) 7 and 11

12) 4 and 9

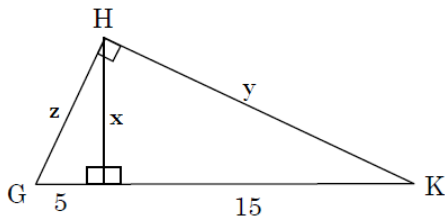
13) 2 and 25

14) 6 and 8

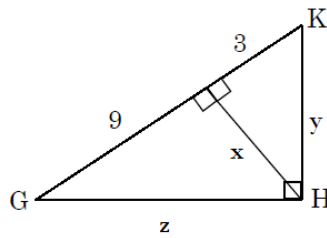
15) 8 and 32

Solve for the variables  $x$ ,  $y$ , and  $z$  in each triangle.

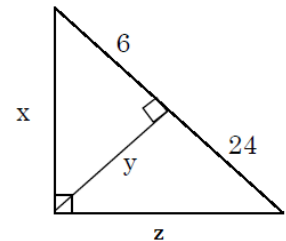
16)



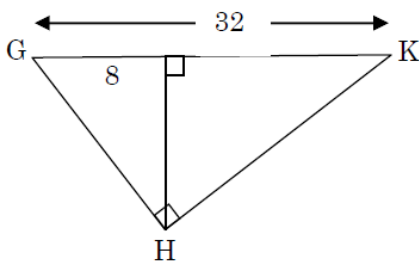
17)



18)



19) Determine the lengths of  $GH$  and  $HK$ .



20) Determine the distance across the lake?

