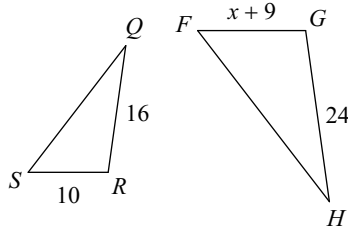


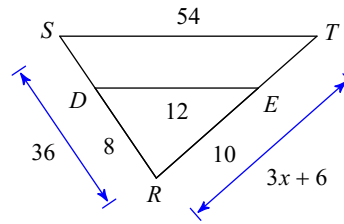
SM2-A HW #9-3 (Solve Triangles w/ SOHCAHTOA)

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

1) $\triangle HGF \sim \triangle QRS$



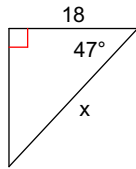
2)



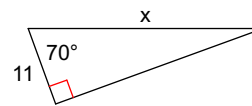
Find the missing side.

- a) Write the equation that includes the given information AND "x".
- b) Write the ratio found by the calculator (in decimal form) to 3 decimal places
- c) For your final answer, round to the nearest tenth.

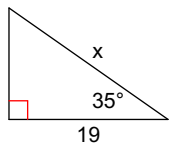
3)



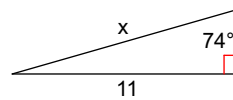
4)



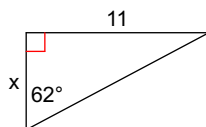
5)



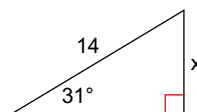
6)



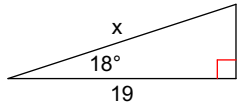
7)



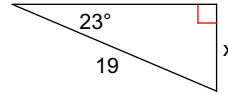
8)



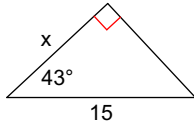
9)



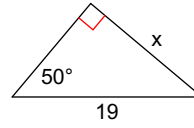
10)



11)



12)



Simplify.

13) $(-2 + 8i)(4 + 7i)$

14) $(3 - 8i)(-3 + 6i)$