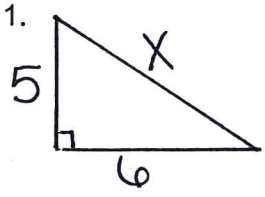
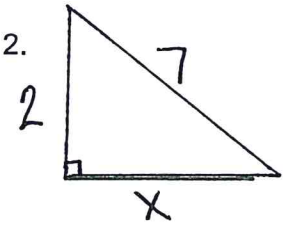
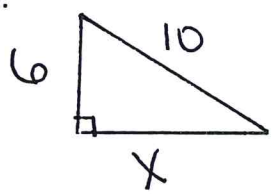
Ch 9 Review Worksheet

Find x. Simplify completely

1. 

2. 

3. 

4. What is a Pythagorean Triple? Give an example.

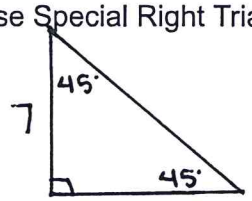
Classify the following side lengths of a triangle as acute, obtuse or right triangles.

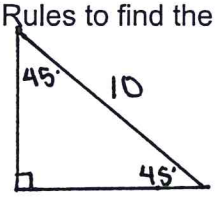
5. 4,10,12

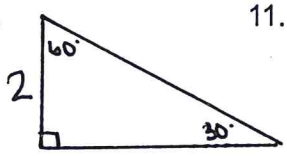
6. 3, $2\sqrt{10}$, 7

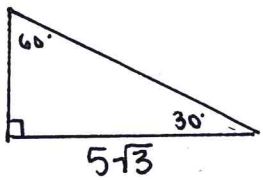
7. 5,6,7

Use Special Right Triangle Rules to find the exact value of the missing side lengths.

8. 

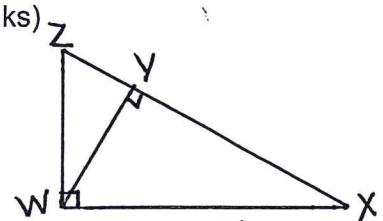
9. 

10. 

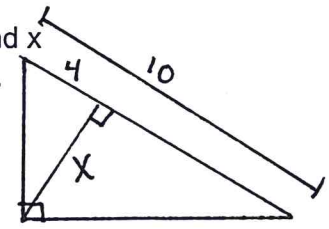
11. 

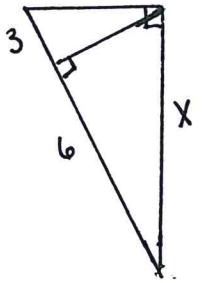
12. Write a similarity statement that relates the 3 triangles (fill in the blanks)

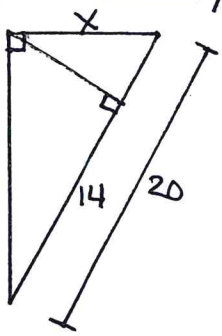
△ ____ ~ △ ____ ~ △ ____



Find x

13. 

14. 

15. 

16. Find the geometric mean of the numbers listed

a) 2 & 8

b) 3 & 6

17. Find the trig ratios as a fraction and as a decimal rounded to the nearest hundredth.

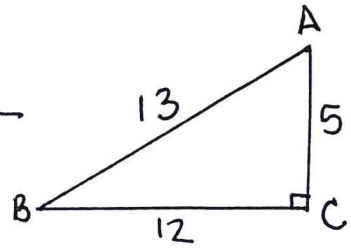
a) tan A = ____ = ____

b) tan B = ____ = ____

c) sin B = ____ = ____

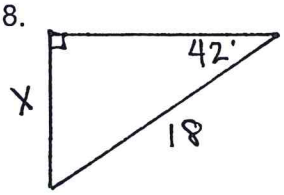
d) cosA = ____ = ____

e) cosB = ____ = ____

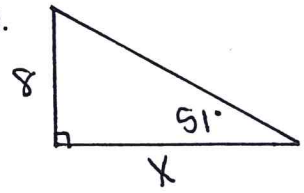


Find the value of x. Round to the nearest tenth.

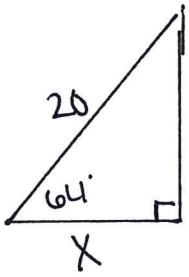
18.



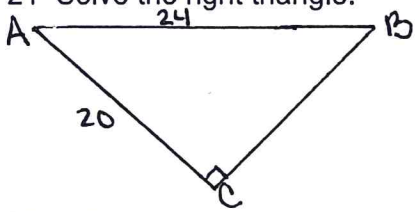
19.



20.



21 Solve the right triangle.



22. A 20ft ladder leans up against the side of a house. It reaches 18ft up the wall. Draw a picture and find the angle of elevation the ladder makes with the ground.

23. You stand 100ft from the base of a tree and the angle of elevation to the top of the tree is 35°. How tall is the tree?