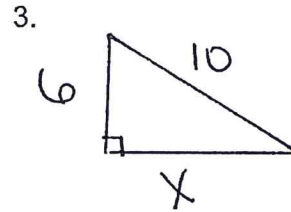
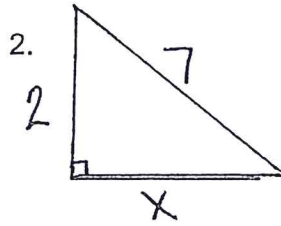
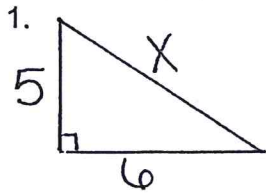


Ch 9 Review Worksheet

Find x. Simplify completely



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

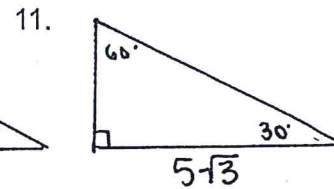
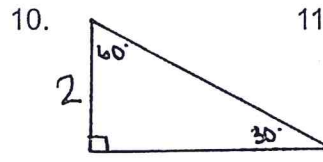
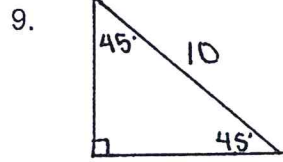
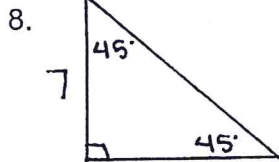
Classify the following side lengths of a triangle as acute, obtuse or right triangles.

5. 4, 10, 12

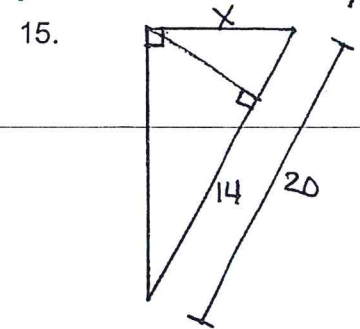
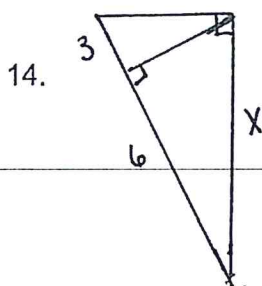
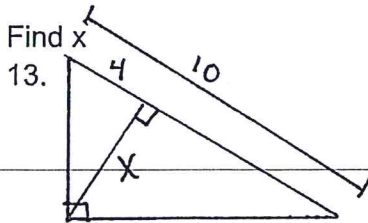
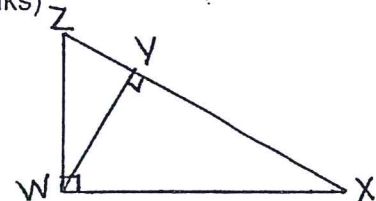
6. 3, $2\sqrt{10}$, 7

7. 5, 6, 7

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



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



16. Find the geometric mean of the numbers listed

a) 2 & 8

b) 3 & 6

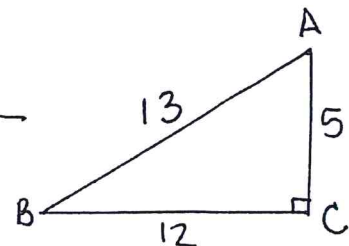
17. Find the trig ratios as a fraction and as a decimal rounded to the nearest hundredth.

a) $\tan A = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

b) $\tan B = \frac{\quad}{\quad} = \frac{\quad}{\quad}$ c) $\sin B = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

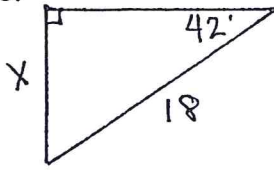
d) $\cos A = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

e) $\cos B = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

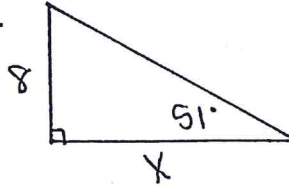


Find the value of x . Round to the nearest tenth.

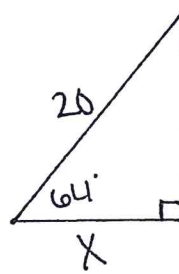
18.



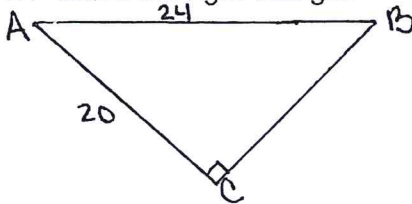
19.



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?
