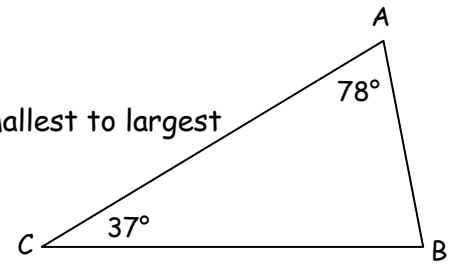
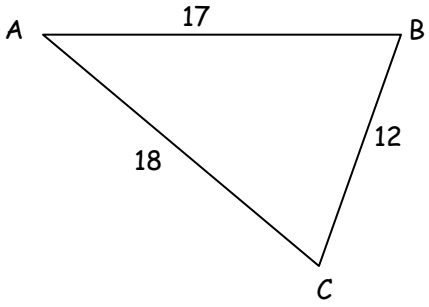
GEOMETRY FINAL REVIEW

NAME_____

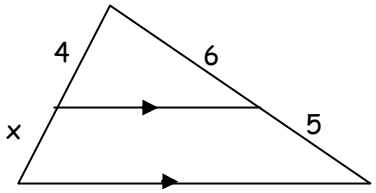
1. Using the given the triangle, list the **sides** from smallest to largest



2. Using the given the triangle, list the **angles** from smallest to largest



3. **Solve for x.**

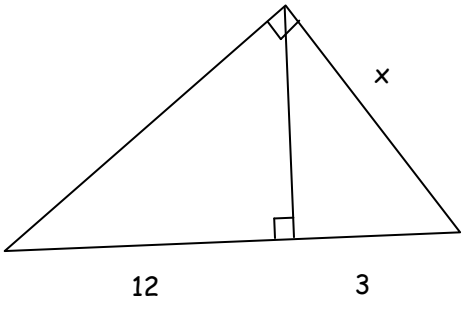


4. **Simplify the ratio:** $\frac{6\,ft}{10\,in}$

5 **Solve for x.** $\frac{6}{5} = \frac{2x}{x+6}$

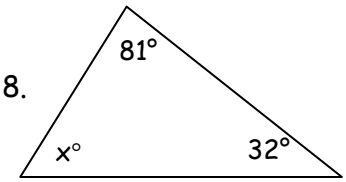
6. **Find the geometric mean of 5 and 125.**

7. **Solve for x.**
Reduce the radical



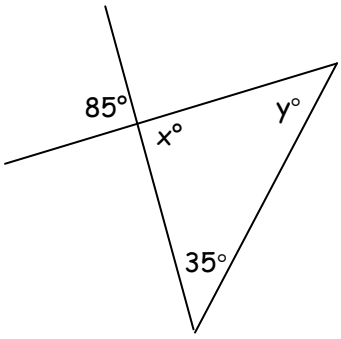
Solve.

8.



x = _____

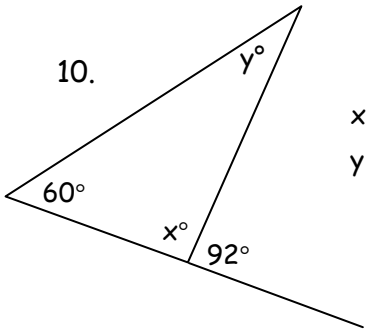
9.



x = _____

y = _____

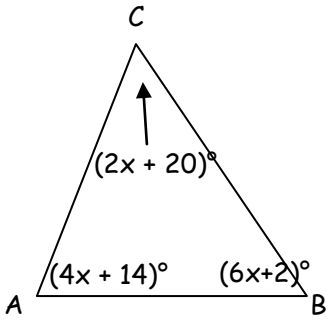
10.



x = _____

y = _____

11.



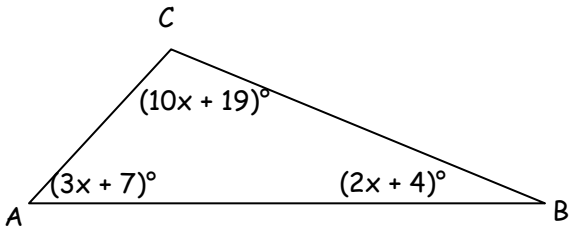
x = _____

∠ A = _____

∠ B = _____

∠ C = _____

12.



x = _____

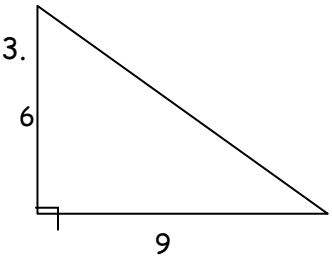
∠ A = _____

∠ B = _____

∠ C = _____

Use the Pythagorean theorem to find the missing angles.

13.

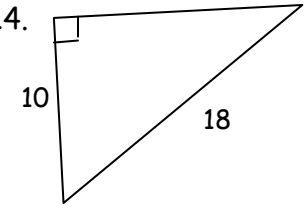


a = _____

b = _____

c = _____

14.

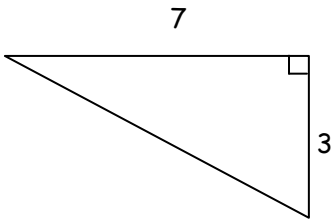


a = _____

b = _____

c = _____

15.



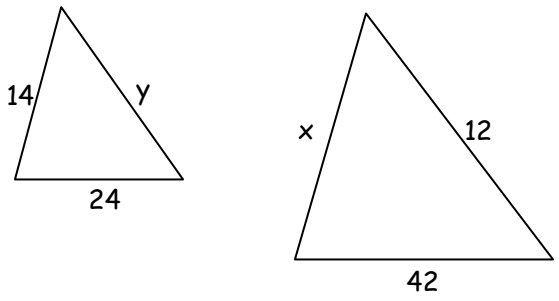
a = _____

b = _____

c = _____

Use similarity to find the missing sides

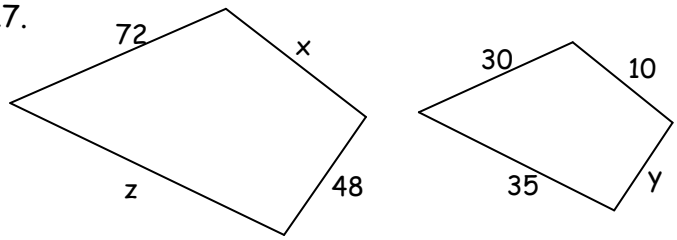
16.



Similarity Ratio:_____

x = _____ y = _____

17.



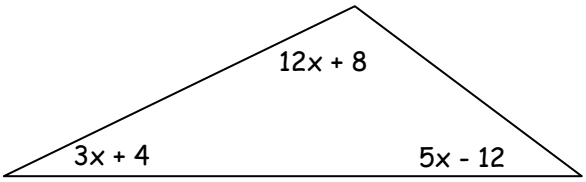
Similarity Ratio:_____

x = _____ y = _____

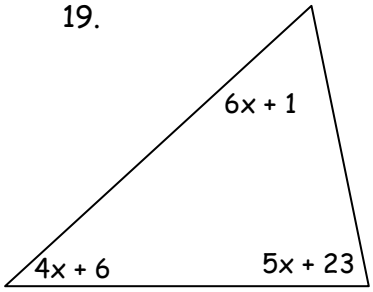
z = _____

Find x.

18. x=_____

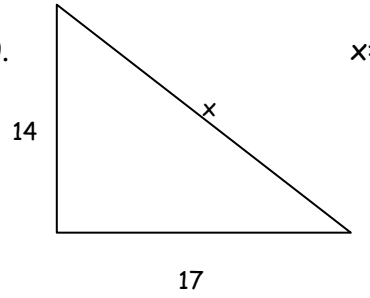


19.

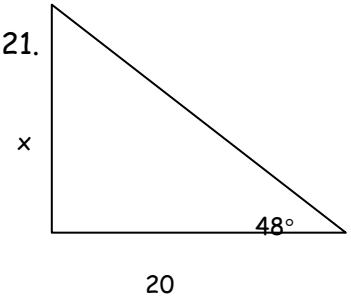


x=_____

20. x=_____

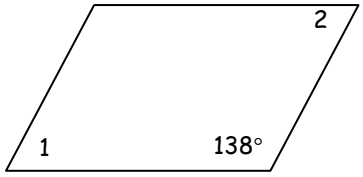


21. x=_____



Find the missing angles

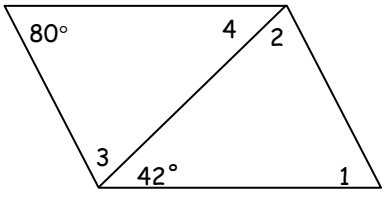
22.



∠ 1 = _____

∠ 2 = _____

23.



∠ 1 = _____

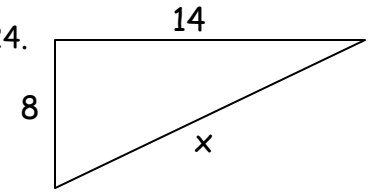
∠ 2 = _____

∠ 3 = _____

∠ 4 = _____

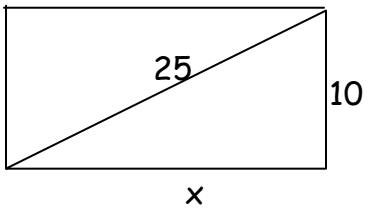
Use Pythagorean Theorem to solve for x.

24.



x =

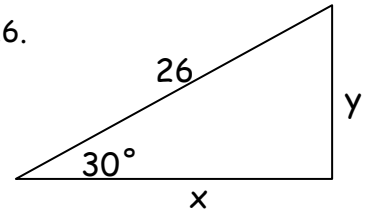
25.



x =

Use special right triangles to solve for x.

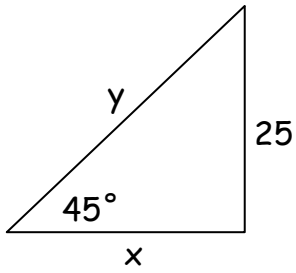
26.



x = _____

y = _____

27.

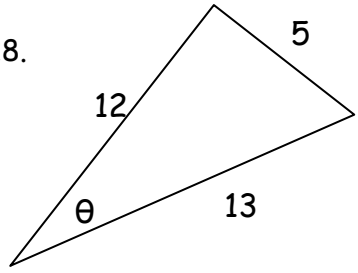


x = _____

y = _____

Find the following trig ratios.

28.



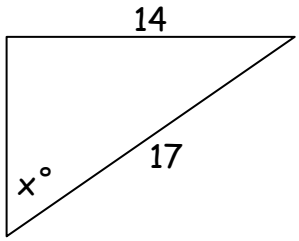
sinθ=_____

cosθ=_____

tanθ=_____

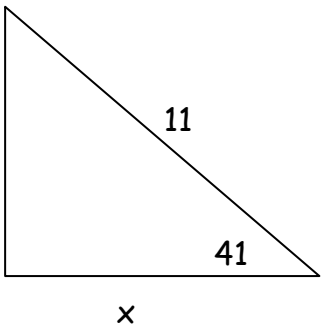
Solve for x.

29.



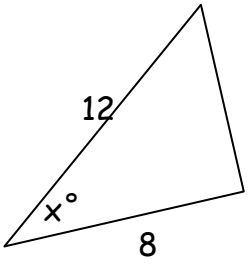
x = _____

30.



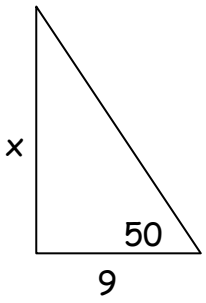
x = _____

31.



x = _____

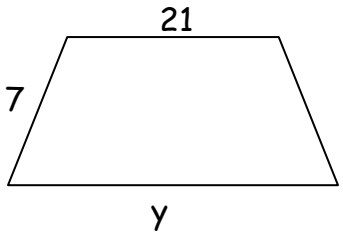
32.

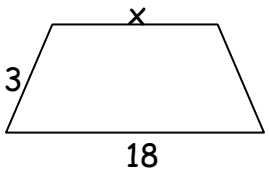


x = _____

Solve the following using proportions.

33.

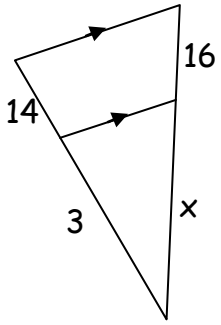




x = _____

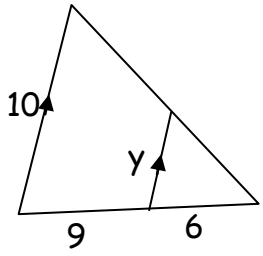
y = _____

34.



x = _____

35.



y = _____