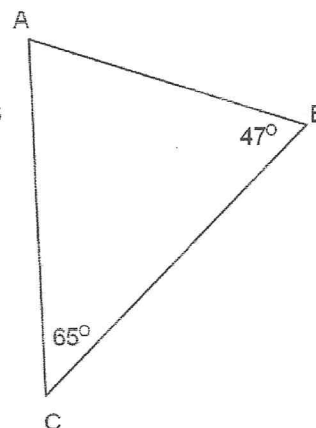
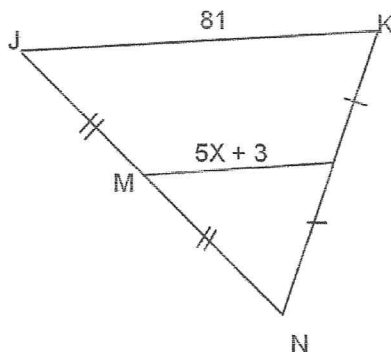
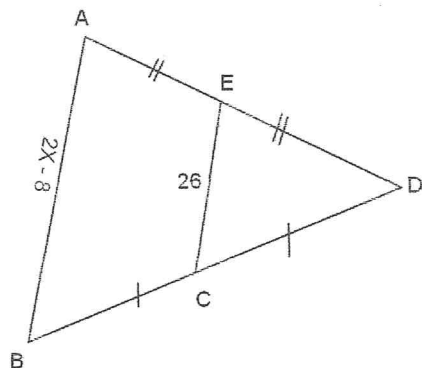


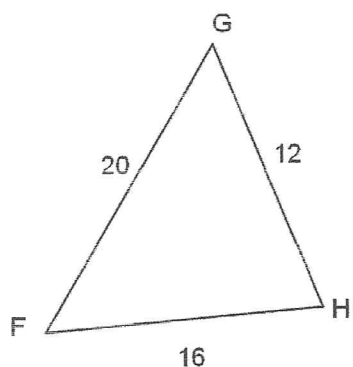
# Chapter 5

For 1 and 2: find the value of  $x$  to the nearest hundredth.

1. longest.
- 2.
3. List the sides in order from shortest to longest.



4. List the angles in order from smallest to largest. lengths?
5. Can a triangle have sides with the given



- a) 13, 18, 11
- b) 26, 12, 14
- c) 59, 103, 42

# Chapter 7

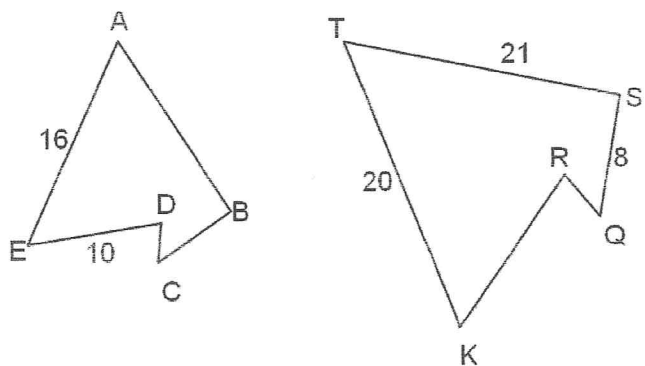
Solve for each variable. Round to the nearest tenth when needed.

1.  $\frac{15}{16} = \frac{x}{70}$
2.  $\frac{40}{27} = \frac{12}{a} = \frac{b}{124}$

3. The scale on a map is 3in = 40 miles.
  - a. If two towns are 275 miles apart in real-life how far apart are they on the map?
  - b. If a highway is 14 inches long on the map find its length in real-life.
4. The scale on a drawing of an airplane is 3:115. If the real plane is 60 feet long find the length of the plane in the drawing. Give your answer in inches rounded to the nearest tenth.
5. The scale on a drawing of a worm is 35:6. If the worm is 8 inches long in the drawing how long is the real worm. Give your answer in inches rounded to the nearest tenth.

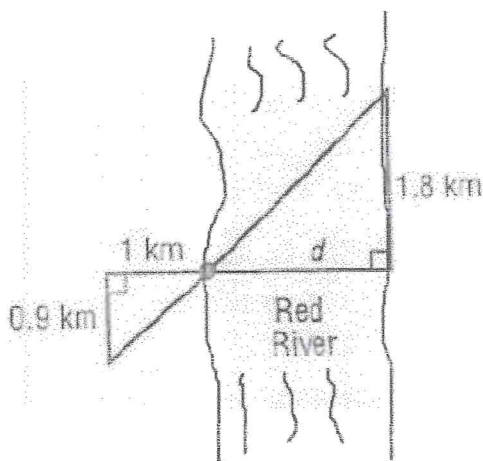
6. These two figures are similar. Find the length of the missing sides to the nearest hundredth.

AB =                      KR =



7. A 40 foot tall tree casts a 72 foot long shadow. At the same time how tall is a flagpole if it casts a 50 foot shadow?

8. Find the distance across the Red River using the given measurements.

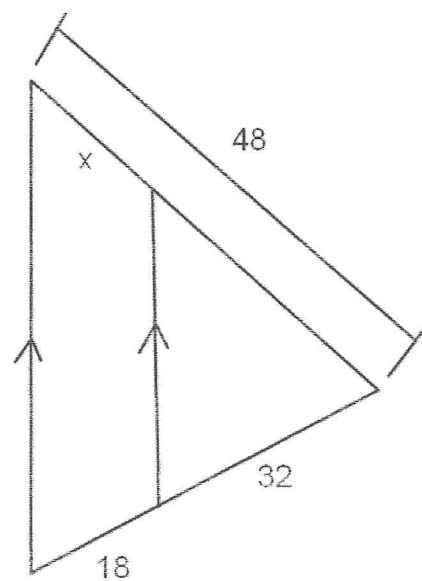
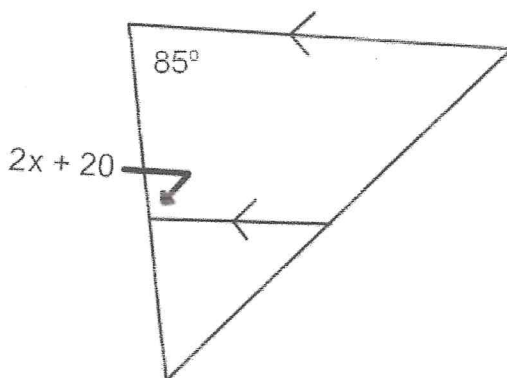
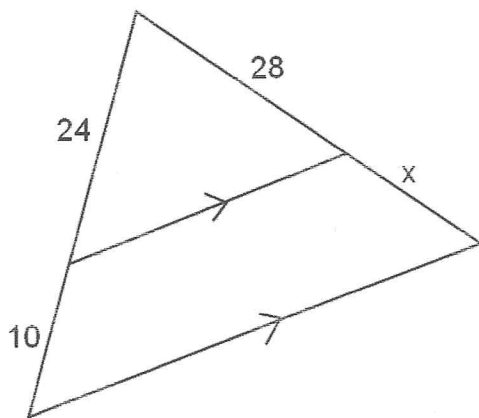


9. Find the value of  $x$  in each figure.

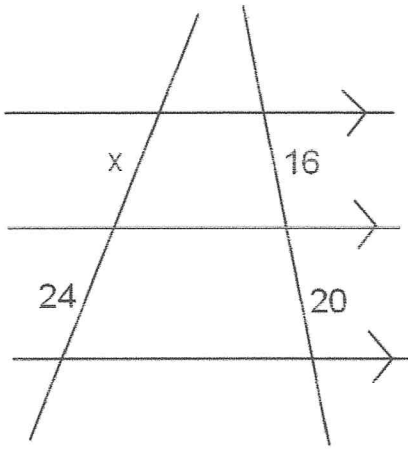
a)

b)

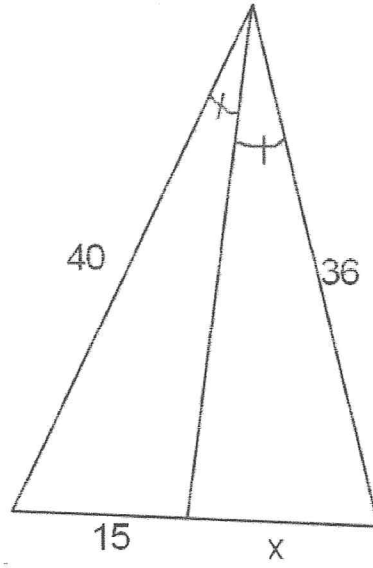
c)



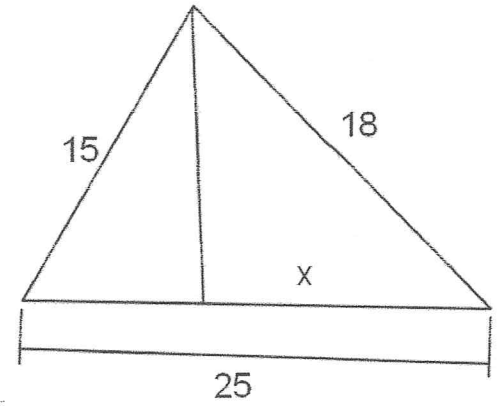
d)



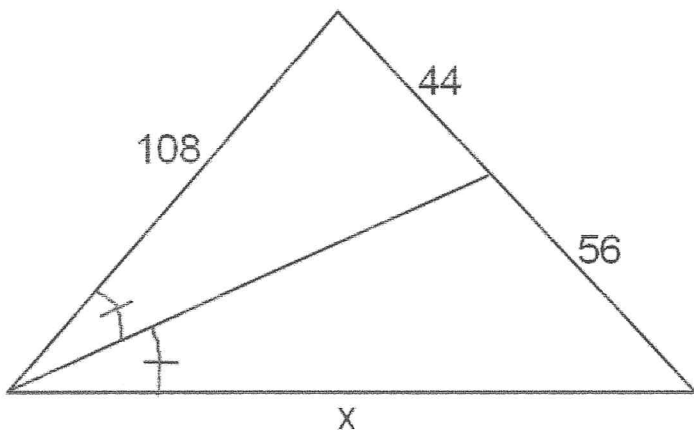
e)



f)



g)



h)

