

Name:

Math 2

Date:

Review 2 Version A

**[A] Circle whether each statement is true or false.**

- T F 1. A square is a rhombus.  
 T F 2. Point  $P$  cannot exist in two different locations.  
 T F 3. The scale factor between two congruent figures is 1.  
 T F 4. The vertex of a central angle is the center of the circle.  
 T F 5. A tangent always forms a right angle with the radius it intersects.  
 T F 6. The scale factor from a circle of radius 11 to a circle of radius 52 is  $\frac{52}{11}$ .  
 T F 7.  $\overline{NK}$  represents a line segment, and  $NK$  represents the length of a line segment.  
 T F 8. A scale factor greater than 1 will enlarge a figure, and a scale factor less than 1 will shrink a figure.

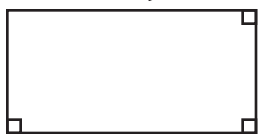
**[B] Sketch the following. Use a ruler or protractor to make sure your sketches are approximately correct.**

1.  $\overrightarrow{AB} \perp \overrightarrow{AC}$  2.  $PX = XC$

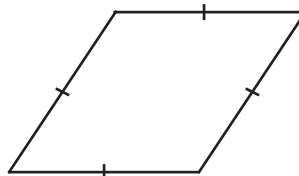
3.  $\angle ABC \cong \angle DBC$

4.  $\angle DBC$  is a central angle.

**[C] Identify each of the following shapes by checking every term that applies.**

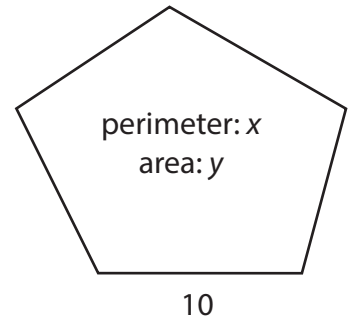
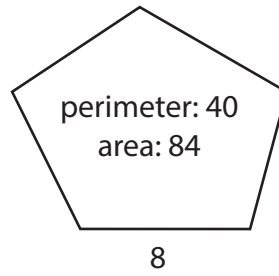
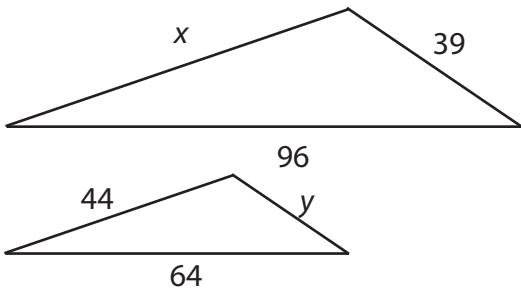


- quadrilateral
- square
- rectangle
- rhombus
- parallelogram
- kite
- trapezoid



- quadrilateral
- square
- rectangle
- rhombus
- parallelogram
- kite
- trapezoid

[D] Each pair of figures is similar. Solve for  $x$  and for  $y$ .



[E] Point  $A$  is  $(2, 8)$ , and point  $B$  is  $(4, 18)$ . Using equations only, solve for the following.

1. the slope  $m$  of  $\overleftrightarrow{AB}$

2. the midpoint  $D$  of  $\overleftrightarrow{AB}$

3. the length of  $\overleftrightarrow{AB}$

4. the equation of  $\overleftrightarrow{AB}$

[F] Solve for the indicated angle measures, given  $G$  is the center.

1.  $m\angle KGF$

2.  $m\angle KJF$

