

Chapter 10 Review

1) List the formulas for the following

Area of a Rectangle

Area of a Parallelogram

Area of a Triangle

Area of a Trapezoid

Area of a Kite

Area of a Rhombus

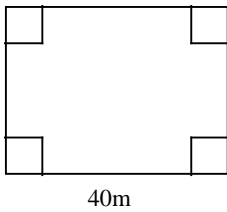
Area of a Regular Polygon

Circumference

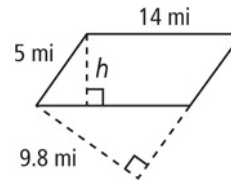
Arc Length

Area of a Circle

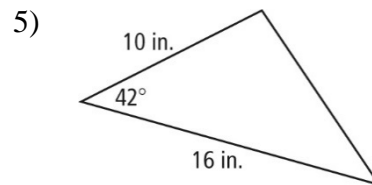
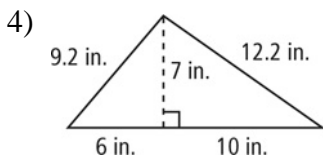
2) The figure is a rectangle with perimeter 126 m.
What is the area?



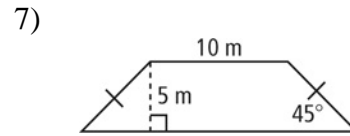
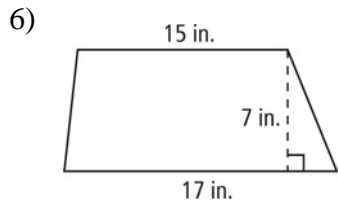
3) Find the value of h .



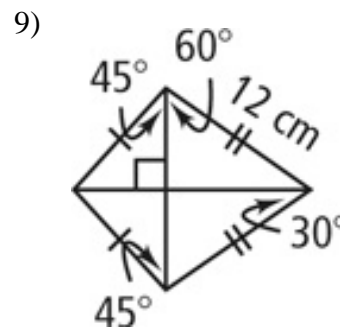
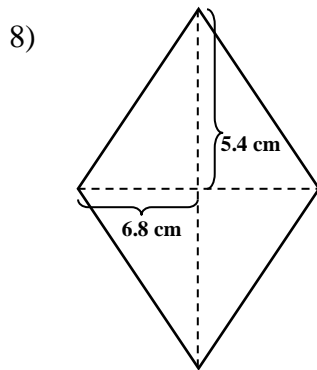
Find the area of the following triangles. Round to the nearest 0.1 if necessary.



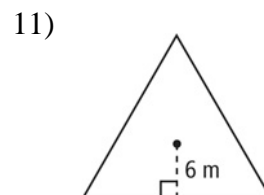
Find the area of the following trapezoids. Round to the nearest 0.1 if necessary.



Find the area of the following kite and rhombus trapezoids. Round to the nearest 0.1 if necessary.



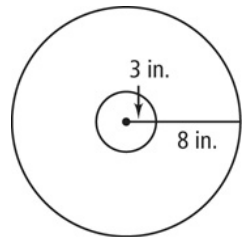
Find the area of the following regular polygons. Round to the nearest 0.1 if necessary.



12) The shortest side of a pentagon is 4 cm. The shortest side of a similar pentagon is 9 cm. The area of the larger pentagon is 243 cm^2 . What is the area of the smaller pentagon?

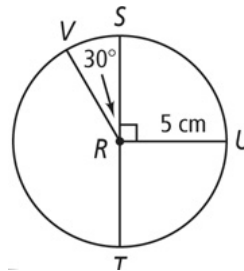
13) The area of a regular nonagon is 34 m^2 . What is the area of a regular nonagon with sides five times the sides of the smaller nonagon?

14) The wheel of a car is shown at the right. How far does the hubcap of the tire travel in one complete rotation? How far does the tire itself travel in one complete rotation? Leave in exact form.



Find the ARC LENGTH OF THE FOLLOWING.
Leave your answers in terms of π .

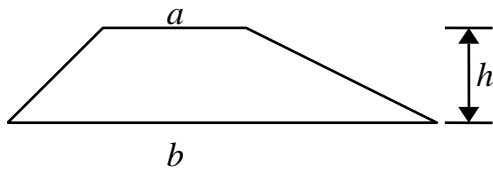
15) \widehat{SV}



16) \widehat{UV}

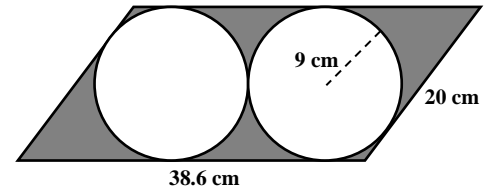
17) \widehat{SUT}

- 18) The trapezoid below has an area that is 756 cm^2
 $a = 39 \text{ cm}$. $h = 18 \text{ cm}$.

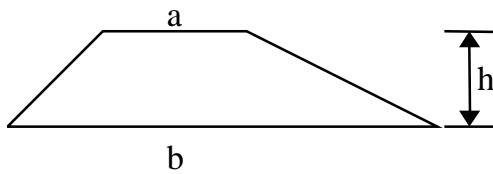


$b =$ _____

- 19) Find the shaded region in the parallelogram below. Round to the nearest 0.1 if necessary.

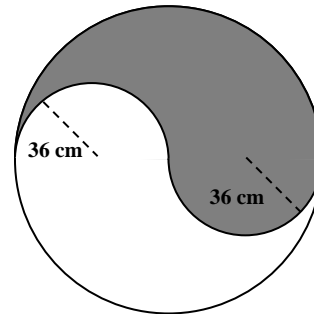


- 20) The trapezoid below has an area that is 756 cm^2
 $a = 39 \text{ cm}$. $h = 18 \text{ cm}$.



$b =$ _____

- 21) Find the area of the shaded region. Leave in exact form.



Shaded Area = _____