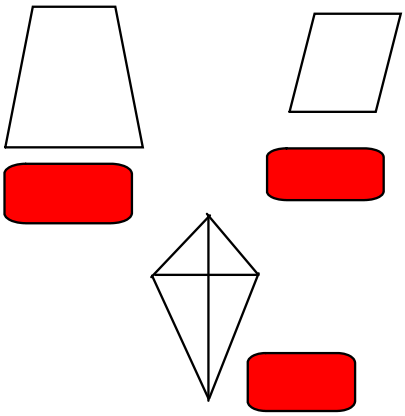
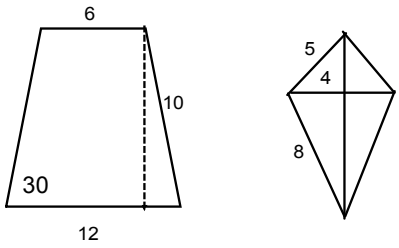
Warmup

Area of Trapezoids, Rhombi & Kites

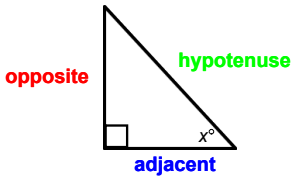


Find the area and perimeter

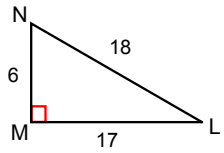


9.2 Triangle and Circle Review

When given any right triangle we always have this relationship at a specific angle measure, that is not the right angle.



Find the trig ratios for the triangle below. Express each ratio as a fraction and as a decimal.

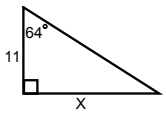


sin L = sin N =

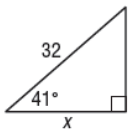
cos L = cos N =

tan L = tan N =

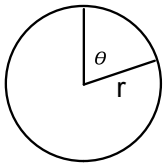
Find the missing side lengths.



Find the missing side lengths.



We can find arc length by finding the circumference and then multiplying it by the fraction the central angle is to the entire circle.

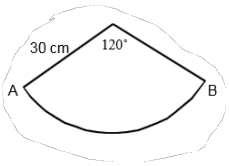


$$arc\ length = \frac{\theta}{360}\pi d$$

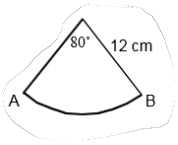
OR

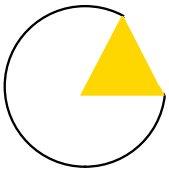
$$arc\ length = \frac{\theta}{360}2\pi r$$

Find the length of the arc of each circle. Round to the nearest hundredth.



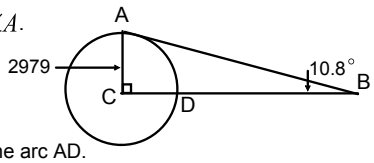
Find the length of the arc of each circle. Round to the nearest hundredth.





If the yellow triangle is equilateral, with side lengths of 15m, what is the area of the circle not covered by the triangle?

1. Find the measure of $\angle A$.



2. Find the measure of the arc AD.

3. How far is it from A to B.

4. How far is it from A to D, and C to D.