

1. Find the area of a sector of radius 5 and arc length 12.

2. Find the area of a sector of radius 6 and central angle  $\frac{\pi}{5}$ .

3. Find the linear distance traveled by a point on a rotating circle of radius 8 after 3 rotations.

4. Find the linear velocity of a point on a circle of radius 5 feet rotating at 15 RPM's.

5. Find the angular velocity of a point on a circle of radius 9 feet rotating at 12 RPM's.

6.  $\cos \frac{5\pi}{6} =$

7. Find the period of  $y = 5 \cos(7x - 2)$

8. Find the arc length of a sector with radius 6 in and central angle 3.

9. Find the period of  $y = 4 \tan(2x + 3)$