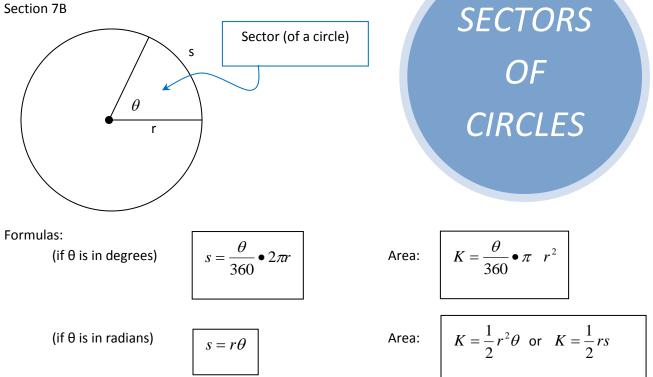
College Review Math Section 7B



Find the missing measurement. If necessary, round to nearest hundredth.

Examples: 1) radius = 5cm arc length = 8cm central $\angle = ?$ $8 = 5\theta$ $8/5 = \theta$ 8 = 1.52 radius = 8.2in central $\angle = 1.52$ radians arc length = ? s = (8.2)(1.52)s = 12.464 in.

4) radius = 12mm
central ∠ = 0.44 radians
area of the sector = ?

$$K = \frac{1}{2}(12)^2(0.44)$$

K = 31.68 mm²

6) area = 2.178in² central $\angle = 0.9$ radians radius = ? 2.178 = $\frac{1}{2}r^2(0.9)$ 2.178 = 0.45r² 4.84 = r² square root of 4.84 can't be r = 2.2 in. negative (distance)

8/5 = θ θ = 1.6 radians 3) radius = 10ft central \angle = 75° arc length = ? $s = \frac{75}{360} \cdot 2\pi(10)$ $s \approx 13.09 \text{ ft.}$

5) central ∠ = 90° radius = 9cm area of the sector = ?

> $K = \frac{90}{360} \bullet \pi \bullet (9)^2$ K = 63.62 cm²