8+1

AJ Design

Math Geometry

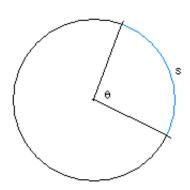
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Circle Arc Equations Formulas Calculator Math Geometry



Solving for circle arc length.

$$s = r \times \theta$$

Inputs:

radius (r)

central angle (θ)

degree

Calculate









Conversions:

radius (r)

=0

=0

central angle (θ)

= 0

=0

radian

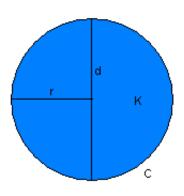
Solution:

= NOT CALCULATED

Change Equation

Select an equation to solve for a different unknown

Circle



| d = 2r | diameter |
|-------------------|----------|
| $r = \frac{d}{2}$ | radius |

| C = 2m | circumference |
|----------------------|---------------|
| $r = \frac{C}{2\pi}$ | radius |

$$C = \pi \times d$$
 circumference $d = \frac{C}{\pi}$ diameter

$$C = 2\sqrt{\pi \times K} \quad \text{circumference}$$

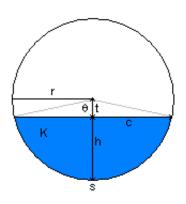
$$K = \frac{C^2}{4\pi} \quad \text{area}$$

$$K = \pi r^2$$
 area $r = \sqrt{\frac{K}{\pi}}$ radius

| $K = \frac{\pi \times d^2}{4}$ | area |
|-------------------------------------|----------|
| $d = \sqrt{\frac{4 \times K}{\pi}}$ | diameter |

| $K = \frac{C \times r}{2}$ | area |
|----------------------------|---------------|
| $C = \frac{2 \times K}{r}$ | circumference |
| $r = \frac{2 \times K}{C}$ | radius |

Segment of a Circle



| $c = 2\sqrt{r^2 - t^2}$ | chord length |
|----------------------------------|--|
| $r = \sqrt{\frac{c^2}{4} + t^2}$ | circle radius |
| $t = \sqrt{r^2 - \frac{c^2}{4}}$ | circle center to chord midpoint distance |

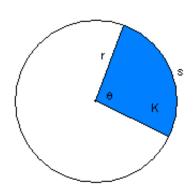
$$K = \frac{r^2(\theta - \sin \theta)}{2}$$
 segment area
$$r = \sqrt{\frac{2 \times K}{(\theta - \sin \theta)}}$$
 circle radius

| $\theta = \frac{s}{r}$ | central angle |
|------------------------|---------------|
| $s = \theta \times r$ | arc length |

$$r = \frac{s}{\theta}$$
 circle radius

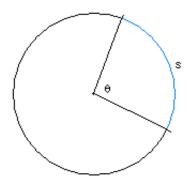
| h = r - t | segment height | |
|-----------|--|--|
| r = h + t | circle radius | |
| t = r - h | circle center to chord midpoint distance | |

Sector of a Circle



| $K = \frac{r^2 \times \theta}{2}$ | sector area |
|--|---------------|
| $r = \sqrt{\frac{2 \times K}{\theta}}$ | circle radius |
| $\theta = \frac{2 \times K}{r^2}$ | central angle |

Arc of a Circle



| $s = r \times \theta$ | arc length |
|------------------------|---------------|
| $r = \frac{s}{\theta}$ | circle radius |
| | |

$$\theta = \frac{s}{r}$$
 | central angle

Calculator

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by Jimmy Raymond

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