

Section 10.1: Arc Length, Area of Sector

Definition: In a circle with radius r , the **arc length** is the distance along the circle. It is measured in the same units as the radius of the circle. It is denoted by s and measured in the arc length.



Theorem: The measure of the central angle subtending an arc is equal to the length of the arc divided by the radius of the circle.

$$\theta = \frac{s}{r} \text{ radians}$$

Definition: The **area of sector** is the area of the sector.

$$A = \frac{1}{2} r^2 \theta$$

The area of a sector is $\frac{1}{2} r^2 \theta$ where r is the radius, θ is the central angle in radians. The area of a sector is the area of the circle multiplied by the ratio of the central angle to the full circle. The area of a sector is $\frac{1}{2} r^2 \theta$ where r is the radius and θ is the central angle in radians.

Definition: The **arc length** is the distance along the circle.

If we divide the area of a sector by the area of the circle, we get the ratio of the central angle to the full circle. The ratio of the central angle to the full circle is $\frac{\theta}{2\pi}$ and the ratio of the area of the sector to the area of the circle is $\frac{A}{\pi r^2}$.



$$\theta = \frac{1}{2} (2\pi) = \pi$$

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The **arc length** is the distance along the circle. It is measured in the same units as the radius of the circle. It is denoted by s and measured in the arc length.

Solving With Radians Key Tesccc

Joacim Rocklöv



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