

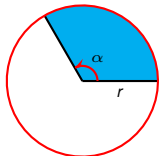
# Precalculus

## Find area of a sector

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A sector of a circle is the region cut off from a circle by an angle whose vertex is at the center of the circle.



### Proposition (Area of a circle sector)

*The area of a circle sector equals*

$$\frac{1}{2}\alpha r^2,$$

*where  $\alpha$  is the angle of the sector.*