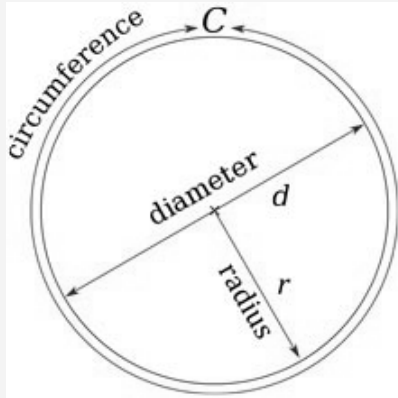
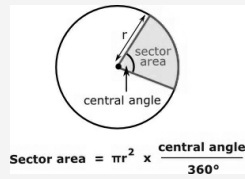


## Definition of a Circle

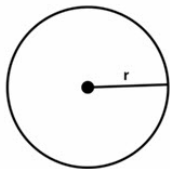


## Segment Area



$$\text{Sector area} = \pi r^2 \times \frac{\text{central angle}}{360^\circ}$$

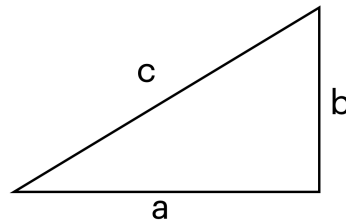
## Area and Circumference Formulae



$$\text{Area} = \pi r^2$$

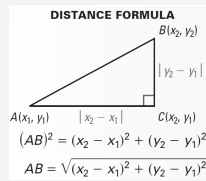
$$\text{Circumference} = 2\pi r$$

## Pythagorean Theorem



$$c^2 = a^2 + b^2$$

## Distance Formula



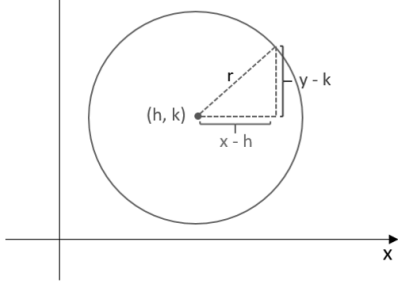
$$(AB)^2 = (x_2 - x_1)^2 + (y_2 - y_1)^2$$

$$AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

## Equation of Circle

**Equation of a Circle**  
with center (h,k) and radius r.

$$(x - h)^2 + (y - k)^2 = r^2$$



## Right Triangle



## SOH - CAH - TOA

Sine opposite/hypotenuse

Cosine adjacent/hypotenuse

Tangent opposite/adjacent

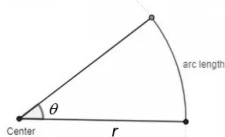
## SOH - CAH - TOA

Sine opposite/hypotenuse

Cosine adjacent/hypotenuse

## Arc Length

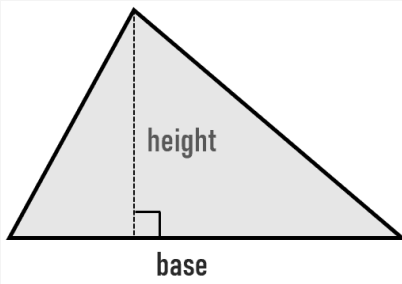
### Arc Length of a Circle



If  $\theta$  is measured in degrees then

$$\text{arc length} = \frac{\theta}{360^\circ} \times 2\pi r$$

## Triangle Area



$$A = \frac{1}{2}bh$$

C

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Page 1 of 2.

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