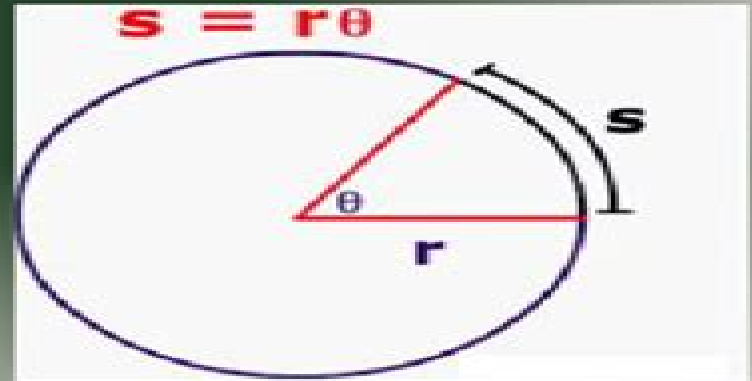


# PRE-CALCULUS

## LESSON 12:

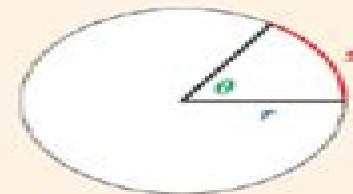
### ARC LENGTH AND AREA OF A SECTOR



#### Arc Length Formula

For a circle of radius  $r$ , the arc length  $s$  intercepted by a central angle  $\theta$  (measured in radians) is given by the following formula.

$$s = r\theta$$



Arc Length = (radius) (angle)

**EX:** A circle has a radius of 4 inches. Find the length of the arc intercepted by a central angle of  $240^\circ$ .

1<sup>st</sup> Change 240 degrees into radians.

# Lesson 12 3 Sector Area And Arc Length

**Jin-Ying Zhang**



## Lesson 12 3 Sector Area And Arc Length:

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