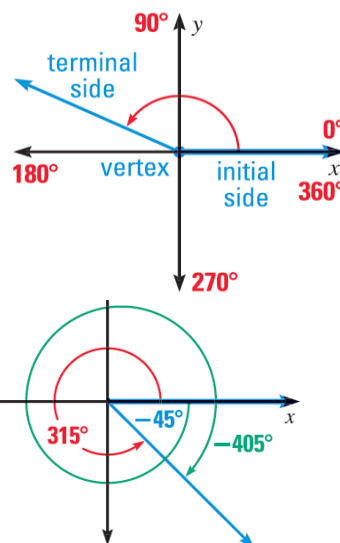
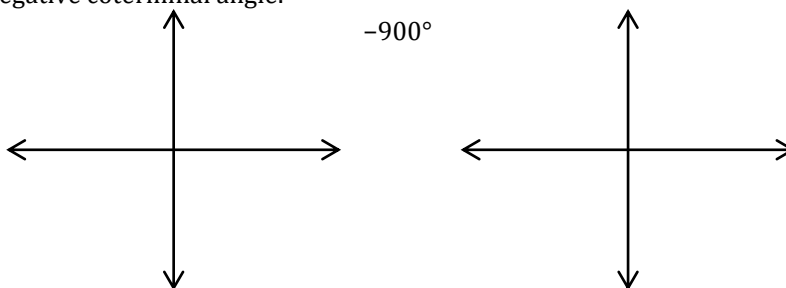


## 10-02 Angles and Radian Measure

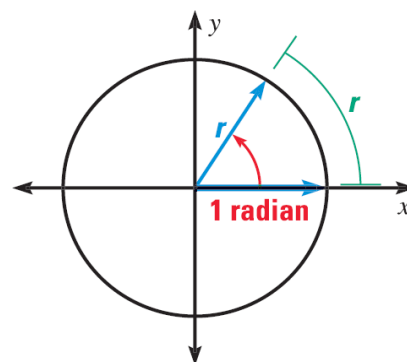
- Vertex on \_\_\_\_\_
- Initial Side on \_\_\_\_\_
- Measured \_\_\_\_\_

- Different angles ( ) that have the same
- Found by adding or subtracting multiples of

65°



- Another \_\_\_\_\_ to measure \_\_\_\_\_
- 1 radian is the angle when the \_\_\_\_\_ = the \_\_\_\_\_
- There are \_\_\_\_\_ radians in a circle
- To convert between degrees and radians use fact that
- $180^\circ = \underline{\hspace{2cm}}$



Convert the degree measure to radians, or the radian measure to degrees.

$135^\circ$

$$\frac{5\pi}{4}$$

### Sector

- \_\_\_\_\_ of a circle

### Arc Length

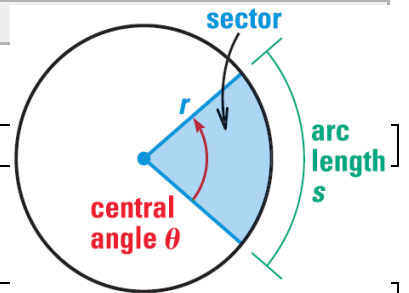
$$s = r\theta$$

$\theta$  must be in radians!

### Area of Sector

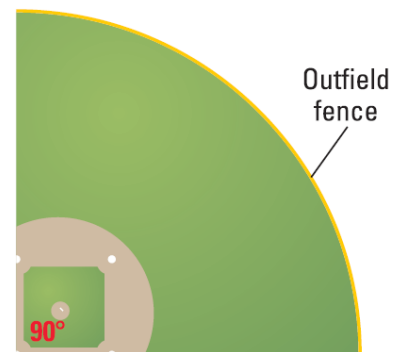
$$A = \frac{1}{2}r^2\theta$$

$\theta$  must be in radians!



Find the length of the outfield fence if it is 220 ft from home plate.

Find the area of the baseball field.



534 #1, 3, 5, 7, 9, 11, 13, 15, 19, 21, 23, 25, 29, 31, 33, 40, 42, 45, 46, 49 = 20