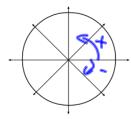
## 4.1 Radian and Degree Measure

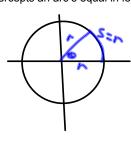
Day 1

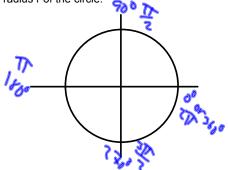
**Trigonometry** means "measurement of triangles"

I. Standard Position of Angles: Positive angles--Negative angles--

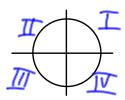


II. Radian Measure: One radian is the measure of a central angle  $\boldsymbol{\Theta}$  that intercepts an arc s equal in length to the radius r of the circle.





III. Quadrants:



IV. Radians versus Degrees
Radians to Degrees: multiply by 180/¶
Degrees to Radians: multiply by ¶/180

Ex 1) Convert from one measure to the other.

Ex 2) <u>Coterminal Angles</u>: 2 angles that have the same initial and terminal side.

Find one positive and negative coterminal angle.



Ex 3) Find the compliment and supplement of each angle, if possible.

B) 
$$\P$$
12
$$C: \frac{D}{2} - \frac{1}{12} = \frac{C}{12} - \frac{1}{12} = \frac{C}{12}$$

$$S: \frac{1}{12} - \frac{1}{12} = \frac{C}{12} - \frac{1}{12} = \frac{C}{12}$$