

Today's Learning Goal(s):

Date: _____

By the end of the class, I will be able to:

- explain the relationship between the ratios of an angle in standard position, and the related acute angle (RAA).
- determine the trig ratios of angles between 0° and 360° .

Last day's work: p. 292 #1 – 4

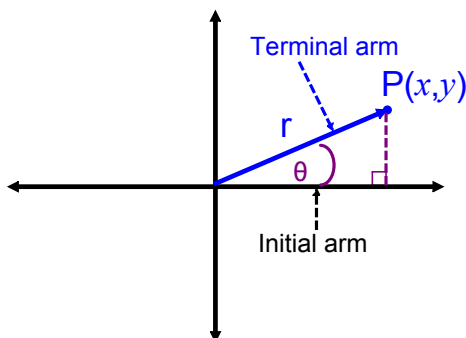
pp. 299-300 #(1 – 5)ac

(3 screens away)

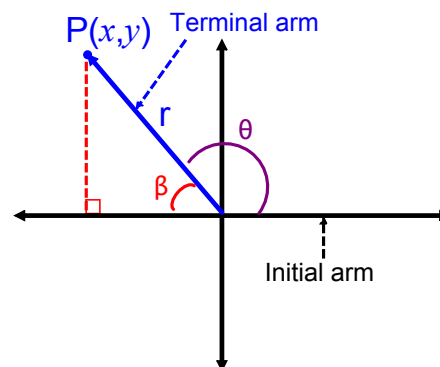
Defining an angle in "standard position". **Explain: $0^\circ \leq \theta \leq 360^\circ$**

θ = Principal Angle

β = Related Acute Angle (RAA)



Note: In Quadrant I: $\theta = \beta$



Complete/Memorize this Chart!

θ	30°	45°	60°
$\sin \theta$			
$\cos \theta$			
$\tan \theta$			

Memorize this Chart!

θ	30°	45°	60°
$\sin \theta$	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$ or $\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
$\cos \theta$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$ or $\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
$\tan \theta$	$\frac{1}{\sqrt{3}}$ or $\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$

Are there any Homework Questions you would like to see on the board?

Friday's work: pp. 286-287 # 1 – 9 [13 – 15]

Asked for yesterday: p. 287 # 8, 9

Last day's work: p. 292 #1 – 4

pp. 299-300 #(1 – 5)ac

Today's Homework Practice includes:

pp. 299-300 #(1 – 5)bd

Standard Posion Wkst#1

8-3 1cd, 2bc, 6, 7a, 9

Extra STUFF on website!