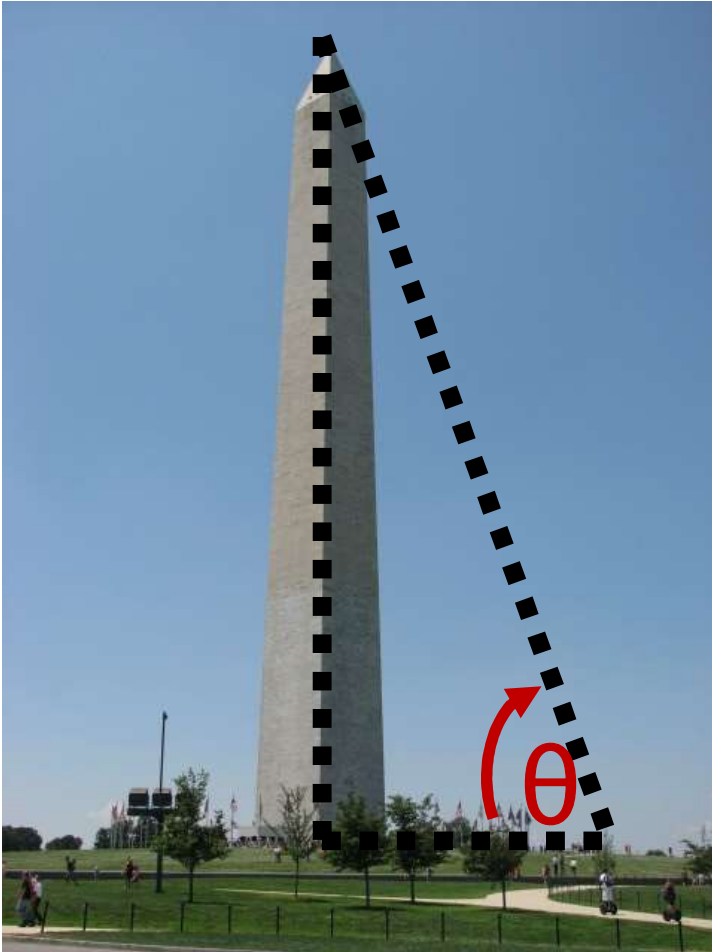
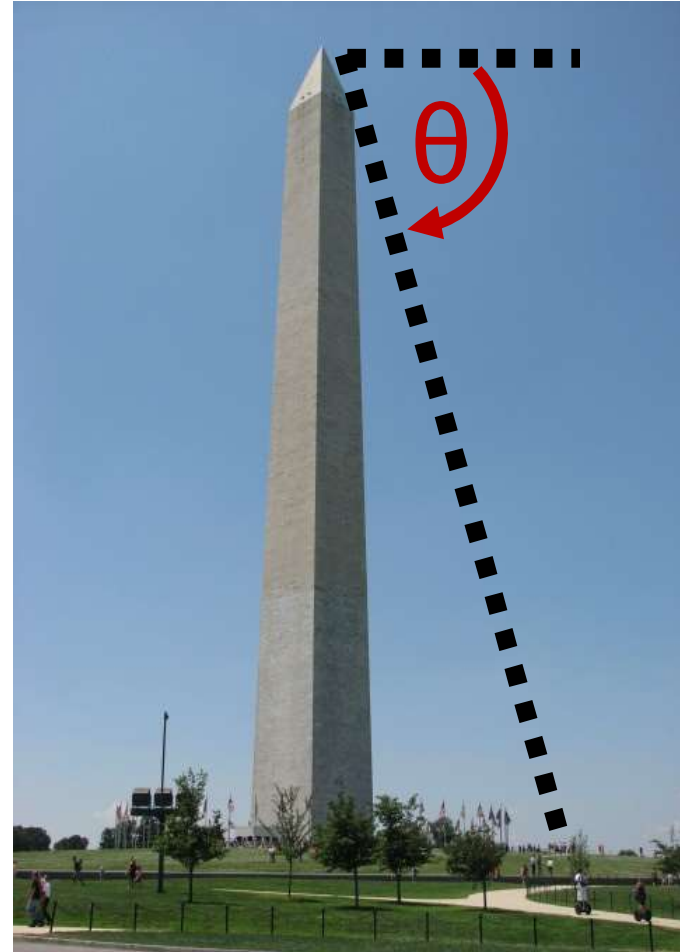


Angle of Elevation:



Angle of Descent or Angle of Depression:



Principal Values:

Principal values create a unique (one) solution:

Sin θ and **T**an θ \rightarrow Quadrant I (+)

Quadrant IV (-)

$$-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}$$

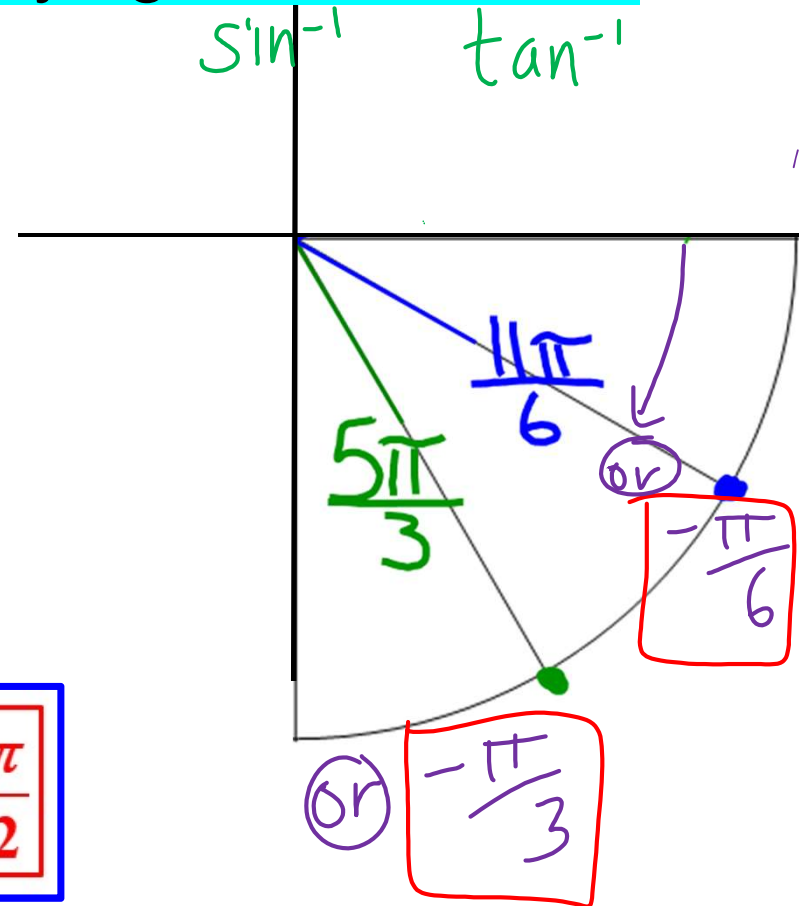
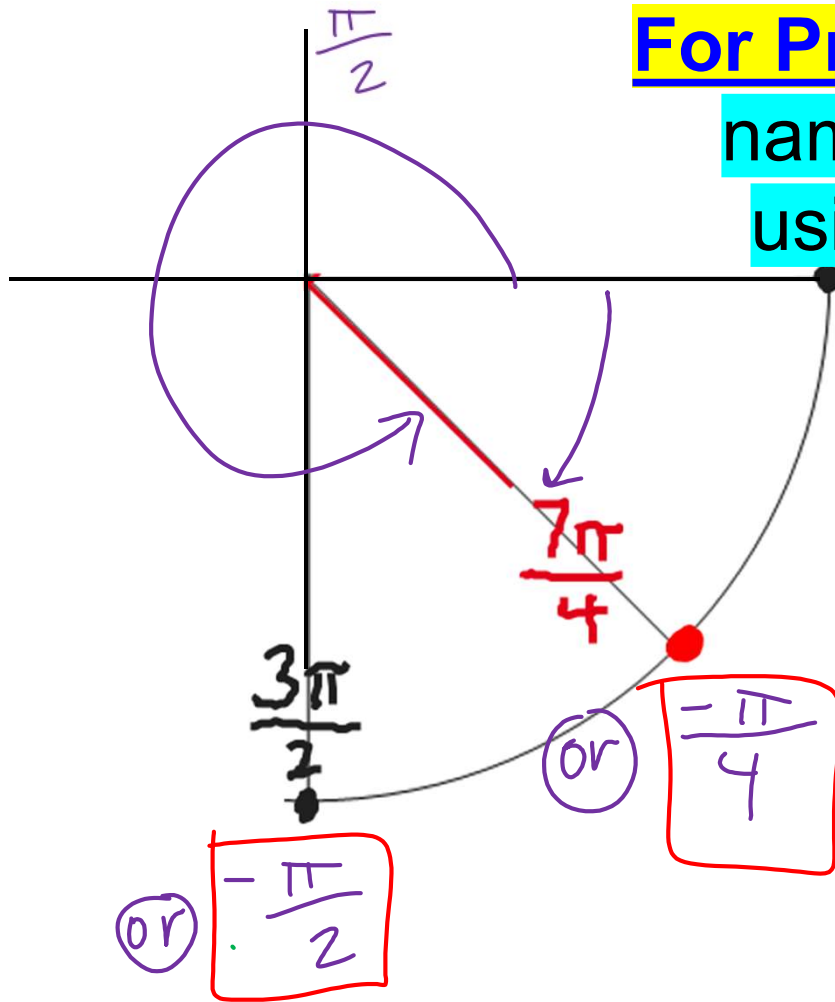
Cos θ \rightarrow Quadrant I (+)

Quadrant II (-)

$$0 \leq \theta \leq \pi$$

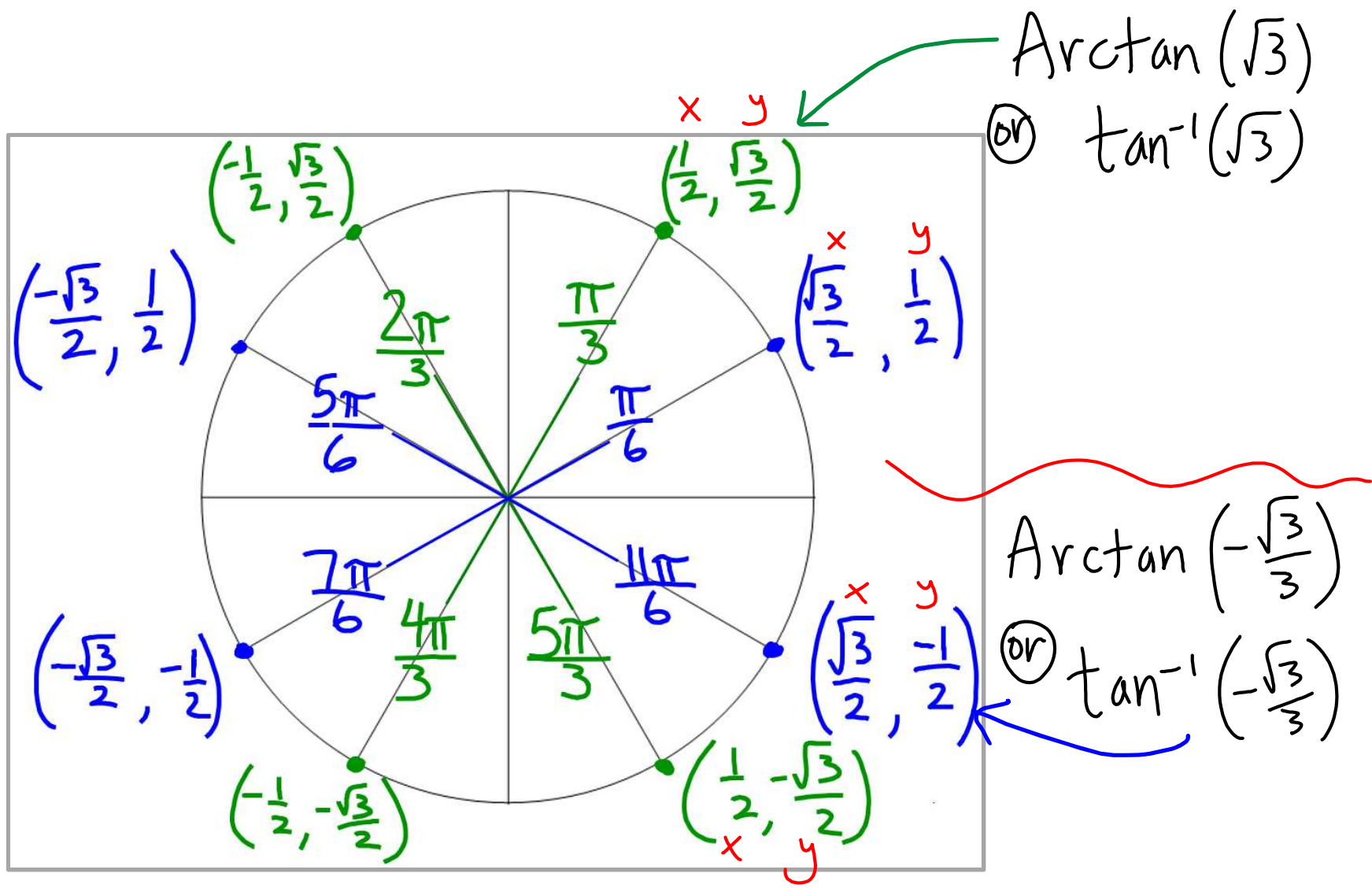
For Principal Values in WebAssign:

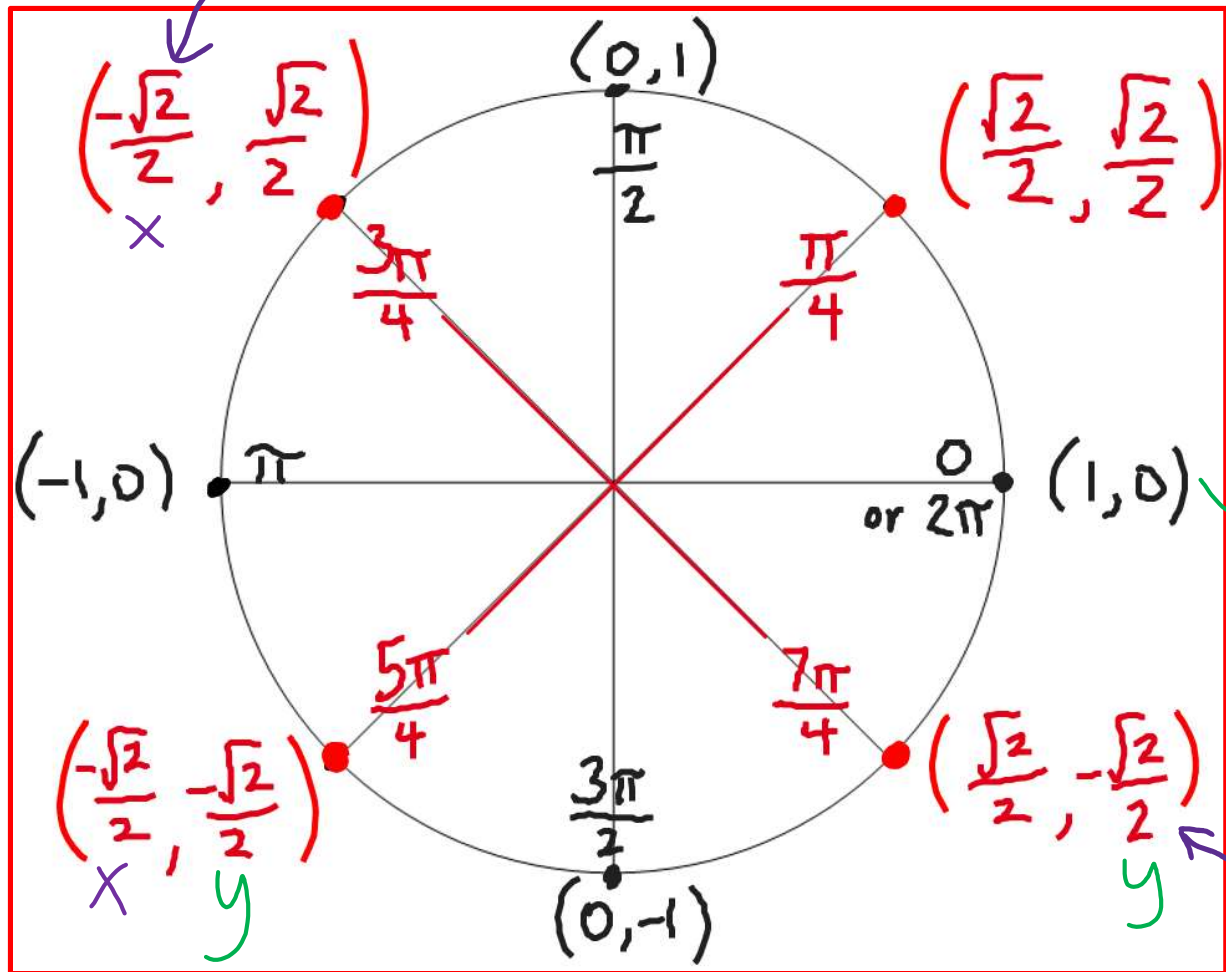
name your angle for quadrant IV
using a negative rotation when
applying arcsin, arctan



Sin θ and **Tan** θ \rightarrow $-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}$
 $\sin \theta$ $\tan \theta$

Cos $\theta \rightarrow 0 \leq \theta \leq \pi$





$$\text{Arccos}\left(-\frac{\sqrt{2}}{2}\right)$$

⊗ $\text{cos}^{-1}\left(-\frac{\sqrt{2}}{2}\right)$

$$\text{Arcsin}\left(-\frac{\sqrt{2}}{2}\right)$$

⊗ $\text{sin}^{-1}\left(-\frac{\sqrt{2}}{2}\right)$

**Be able to label unit circle
with **radian values** **AND**
coordinates, then answer
various final exam questions.**

Ch.8 polar coordinates/equations

Ch.11 conics

Ch.13 limits

Trig: unit circle, triangles, all 6 functions

