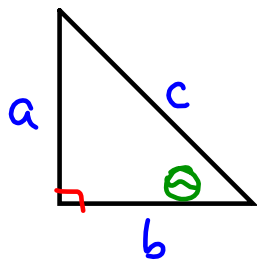
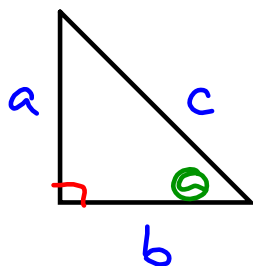


Trig Review

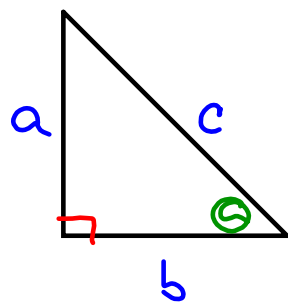
$$\sin \theta = \frac{a}{c}$$

$$\csc \theta = \frac{c}{a}$$



$$\cos \theta = \frac{b}{c}$$

$$\sec \theta = \frac{c}{b}$$



$$\tan \theta = \frac{a}{b}$$

$$\cot \theta = \frac{b}{a}$$

Aug 28-7:52 AM

Trig Review

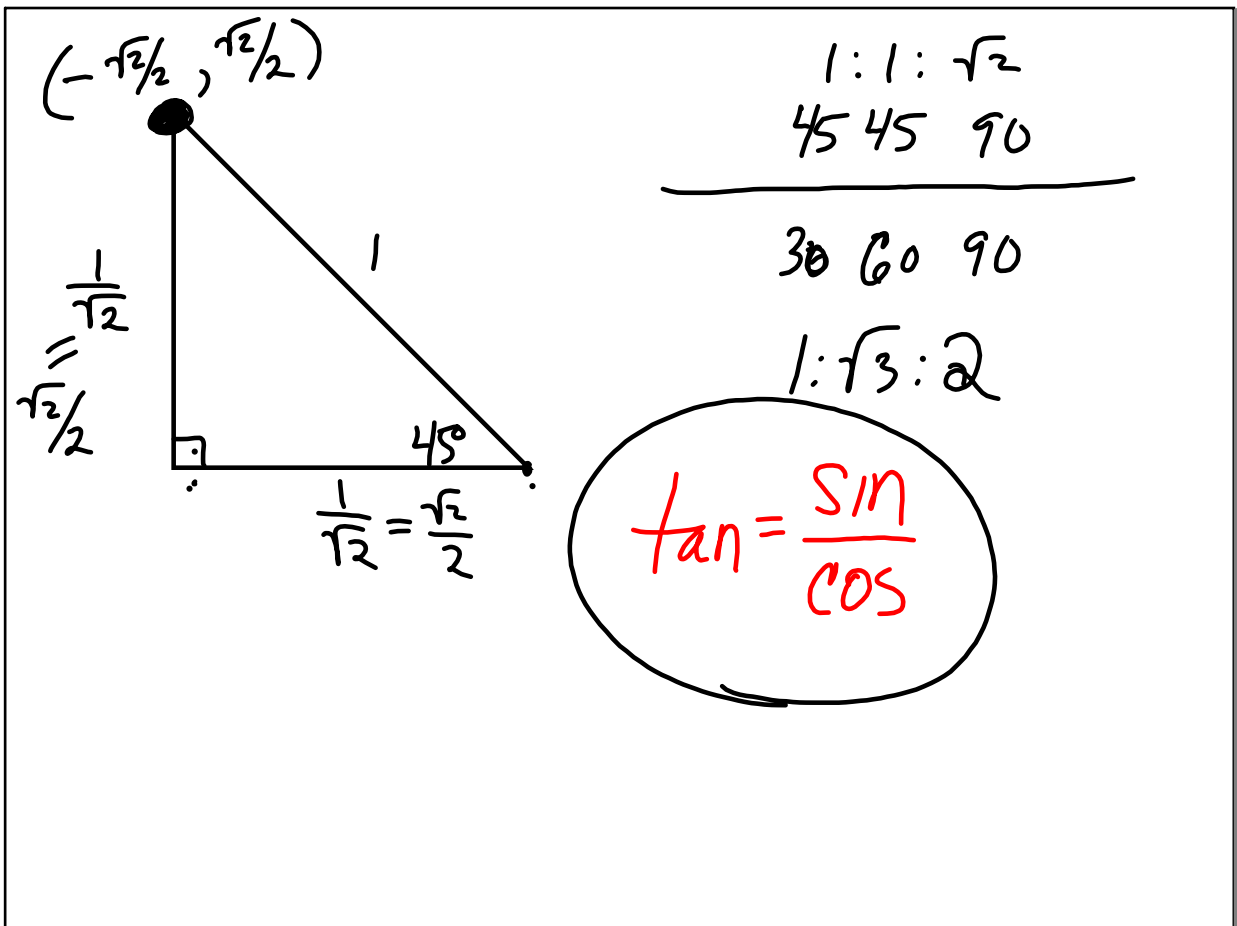
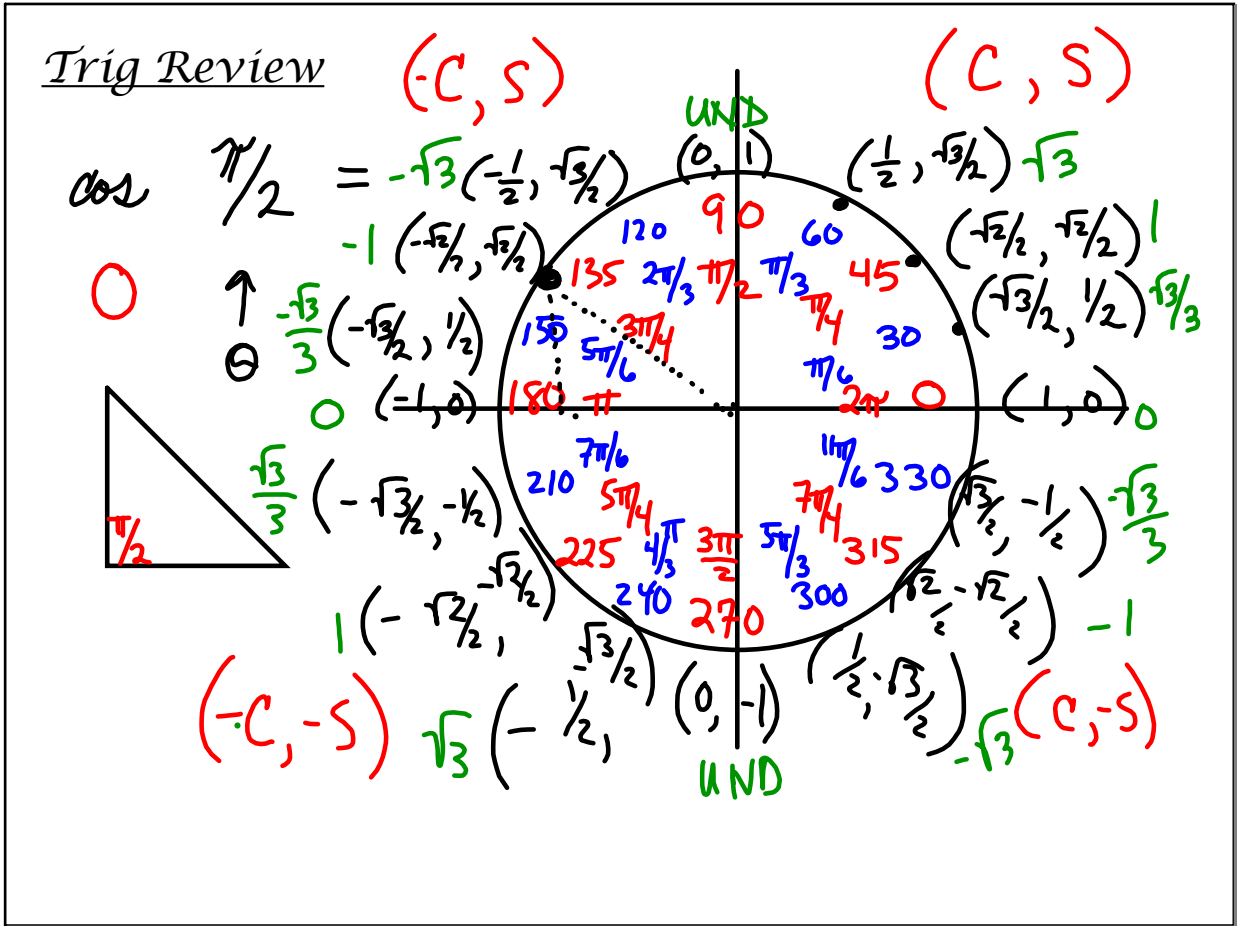
$\text{Deg} \Rightarrow \text{Rad}$ Multiply by $\frac{\pi}{180}$

$$60^\circ \times \frac{\pi}{180} = \frac{60\pi}{180} = \frac{\pi}{3}$$

$\text{Rad} \Rightarrow \text{Deg}$ Multiply by $\frac{180}{\pi}$

$$\frac{\pi}{4} \times \frac{180}{\pi} = \frac{180}{4} = 45^\circ$$

Aug 28-7:52 AM



Trig Review

$$\sin 7\pi/4 = -\sqrt{2}/2$$

$$\text{Arc Sin } \frac{1}{2} = \pi/6, 5\pi/6$$

$$\text{Sec } 3\pi/4 = \frac{1}{\cos 3\pi/4} = \frac{1}{-\sqrt{2}/2} = \frac{1}{1 \cdot \frac{\sqrt{2}}{2}}$$

$$\frac{-\sqrt{2}}{2} = -\sqrt{2}$$

$$\frac{\sqrt{2}}{2} \cdot \frac{2}{\sqrt{2}}$$

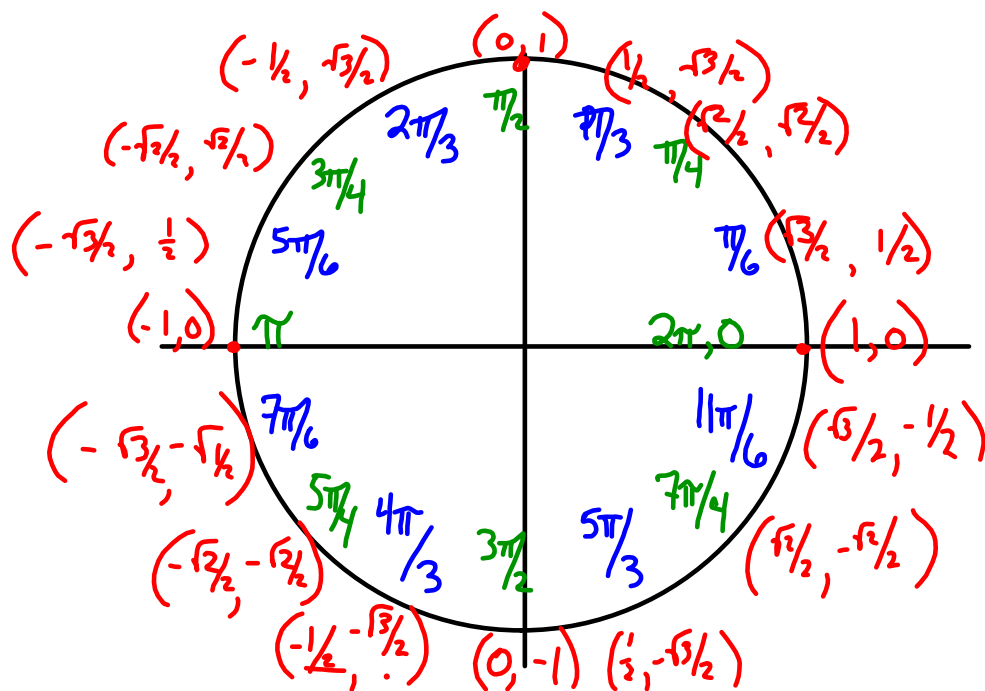
$$\frac{1}{1} \cdot \frac{2}{\sqrt{2}}$$

Aug 28-7:52 AM

$$\text{Arc Sin } \sqrt{2}/2 = \pi/4, 3\pi/4$$

$$\text{Arc Tan } \sqrt{3} = \pi/3, 4\pi/3$$

Aug 28-10:42 AM

Trig Review

Aug 28-7:52 AM

Trig Review

$$\sec\left(\frac{\pi}{4}\right)$$

$$\text{Rewrite: } \cos\left(\frac{\pi}{4}\right) = \frac{\sqrt{2}}{2}$$

$$\text{FLIP: } \frac{2}{\sqrt{2}}$$

$$\text{Rationalize: } \sqrt{2}$$

Aug 28-7:52 AM

Trig Review

$$18) \operatorname{Arccsc}\left(-\frac{2\sqrt{3}}{3}\right)$$

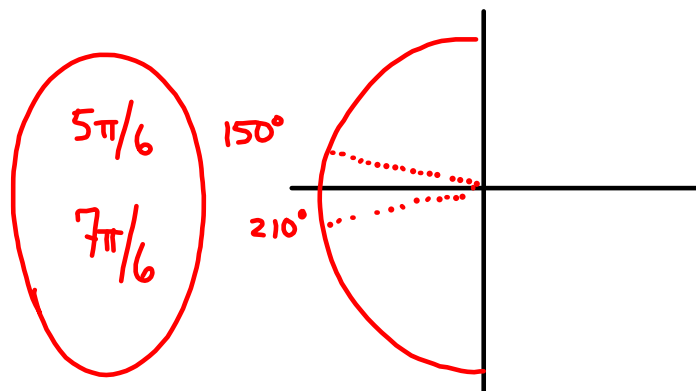
$$\sin^{-1}\left(\frac{-2\sqrt{3}}{3} \cdot \frac{\sqrt{3}}{\sqrt{3}}\right) = \frac{-2\sqrt{3}}{-2(\sqrt{3})} = -\frac{\sqrt{3}}{2}$$

$$\operatorname{Arcsin}\left(-\frac{\sqrt{3}}{2}\right) = \left(\frac{4\pi}{3}, \frac{5\pi}{3}\right)$$

Aug 28-7:52 AM

Trig Review

$$14) \operatorname{Arccos}\left(-\frac{\sqrt{3}}{2}\right)$$



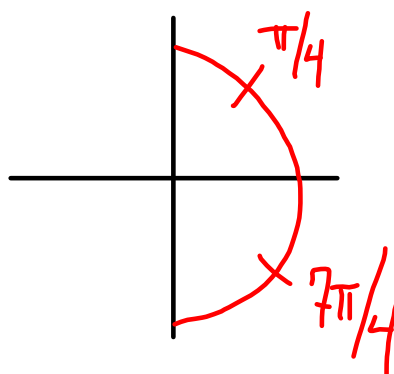
Aug 28-7:52 AM

Trig Review

$$15) \text{ ArcSec}(\sqrt{2})$$

$$\text{Arccos} \frac{1}{\sqrt{2}} \left(\frac{\sqrt{2}}{\sqrt{2}} \right) = \frac{\sqrt{2}}{2}$$

$$\text{ArcCos}(\sqrt{2}/2)$$



Aug 28-7:52 AM

Trig Review

Aug 28-7:52 AM

Trig Review

Aug 28-7:52 AM

Trig Review

Aug 28-7:52 AM

Trig Review

Aug 28-7:52 AM

Trig Review

Aug 28-7:52 AM