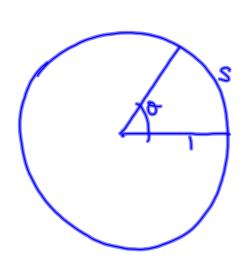
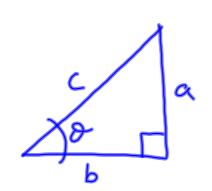


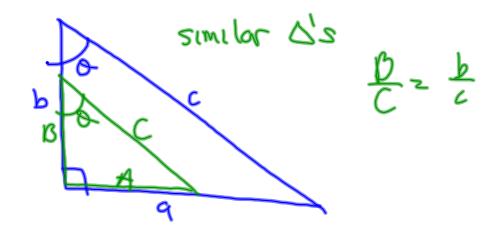
$$360^{\circ} = 20$$
 $-180^{\circ} = 10$
 $-180^{\circ} = 10$

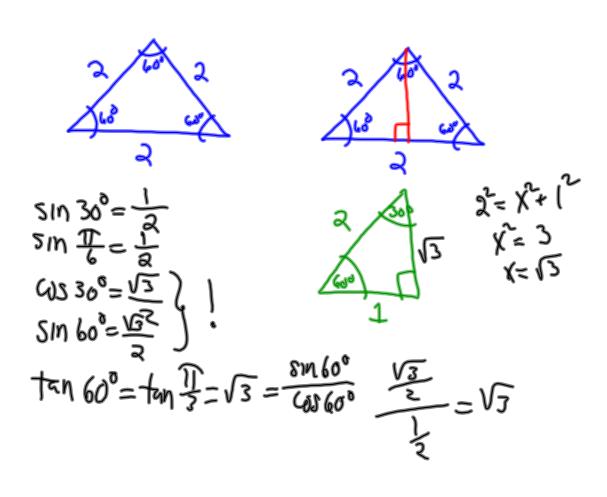


$$S = CO$$
 (O in radius)



a is "opposite" or
b is "adjucent to" or
c is hypotenure
a, b are "legs"





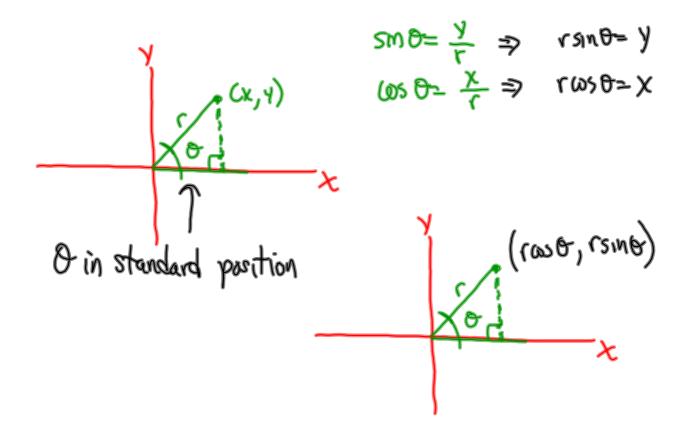
$$5m45 = \sqrt{2} = \frac{1}{2}$$
 $\cos 45 = \sqrt{2}$
 $\tan 45 = 1$

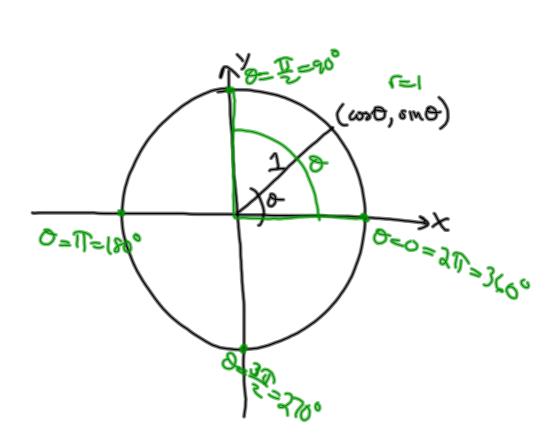
Sec
$$\theta = \frac{hyp}{ady leg} = \frac{1}{cos \theta}$$
 $CSC\theta = \frac{hyp}{opp leg} = \frac{1}{sin \theta}$
 $Cot \theta = \frac{ady leg}{opp leg} = \frac{1}{ton \theta}$

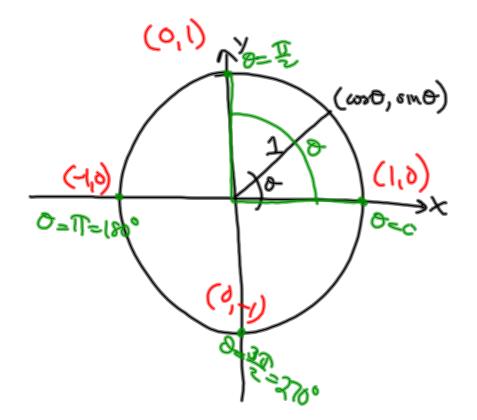
517, cos, tun, cot, sec, csc of 30,60,45











$$(x,y)$$

$$x = -\sqrt{3}$$

$$x = -\sqrt{3}$$

$$x = -\sqrt{3}$$

$$x = -\sqrt{3}$$

SIN
$$\frac{2\pi}{6} = \frac{1}{2}$$

SIN $\frac{2\pi}{6} = \frac{1}{2}$

US $\frac{\pi}{6} = \frac{1}{2}$

Then $\frac{\pi}{6} = \frac{1}{2}$

Then $\frac{\pi}{6} = \frac{1}{2}$

Then $\frac{\pi}{6} = \frac{1}{2}$

Set $\frac{\pi}{6} = \frac{1}{2}$

Set $\frac{\pi}{6} = \frac{1}{2}$

CSC $\frac{\pi}{6} = \frac{1}{2}$

$$SIN \frac{2\Pi}{6} = \frac{1}{2}$$

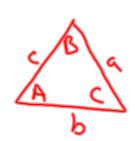
$$SIN \frac{\pi}{6} = \frac{1}{15}$$

$$SIN \frac{\pi}{6} =$$

X<0 Y>0	SIN+USC USE (+)	I All 6 the functions are	x20 Y20 e (+)
X < 0	ten + cut ale (+)	65 + Sec are (+)	X >0
	\widehat{III}		

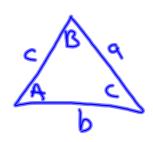
Pythagorean Identity $a^2+b^2=c^2(r^2)$ $a^2+b^2=c^2(r^2)$ $a^2+b^2=c^2(r^2)$ $(r\omega so)+(rsino)=r^2$ $(\omega so)+(sino)=1$ $(\omega so)+(sino)=1$

law of sines (any trangle)



$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

law of cosines (Anytrangle)



 $a^2 = b^2 + c^2 - 2bc \cos A$ $b^2 = a^2 + c^2 - 2ac \cos B$ $c^2 = a^2 + b^2 - 2ab \cos C$

$$PA49$$

$$\#(c)$$

$$SINO = COSO = COSCO =$$

$$PA49$$

$$\#(GC)$$

$$WO = \frac{1}{15}$$

#8)
$$\cos \theta = \frac{2}{3}$$

$$5 \sin \theta = \frac{1}{3}$$

$$\tan \theta = \frac{1}{3}$$

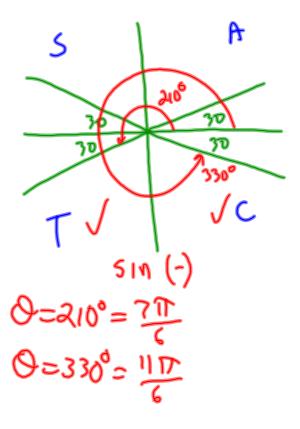
$$5100 = \frac{\sqrt{5}}{3}$$

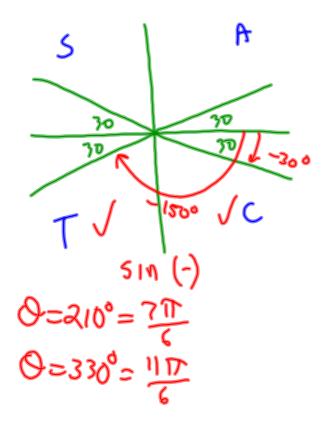
$$tanb = \frac{\sqrt{5}}{3}$$

$$SINO = -\frac{1}{2}$$

$$SINO = -\frac{1}{2}$$

$$SINO = \frac{1}{2}$$





$$\theta = -30^{\circ} = -\frac{T}{6}$$
 $\theta = -150^{\circ} = -\frac{500}{6}$

Trig Homework: Appendix E page A49 5,9,11,15c,23,29,35,37,43