Trig Review:

$$0 < \theta < \frac{\pi}{2}$$

$0°$

$90°$
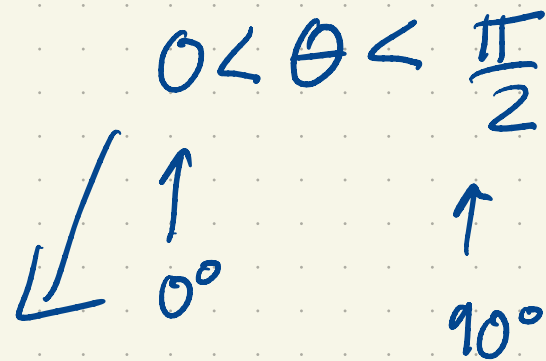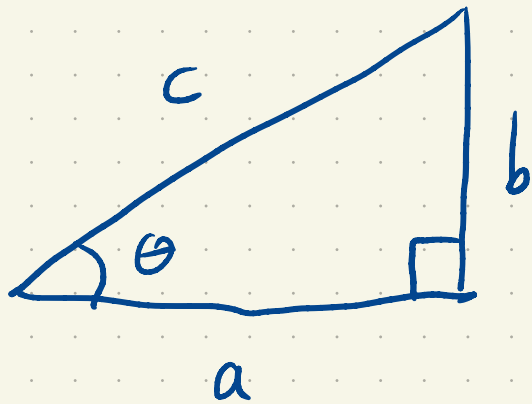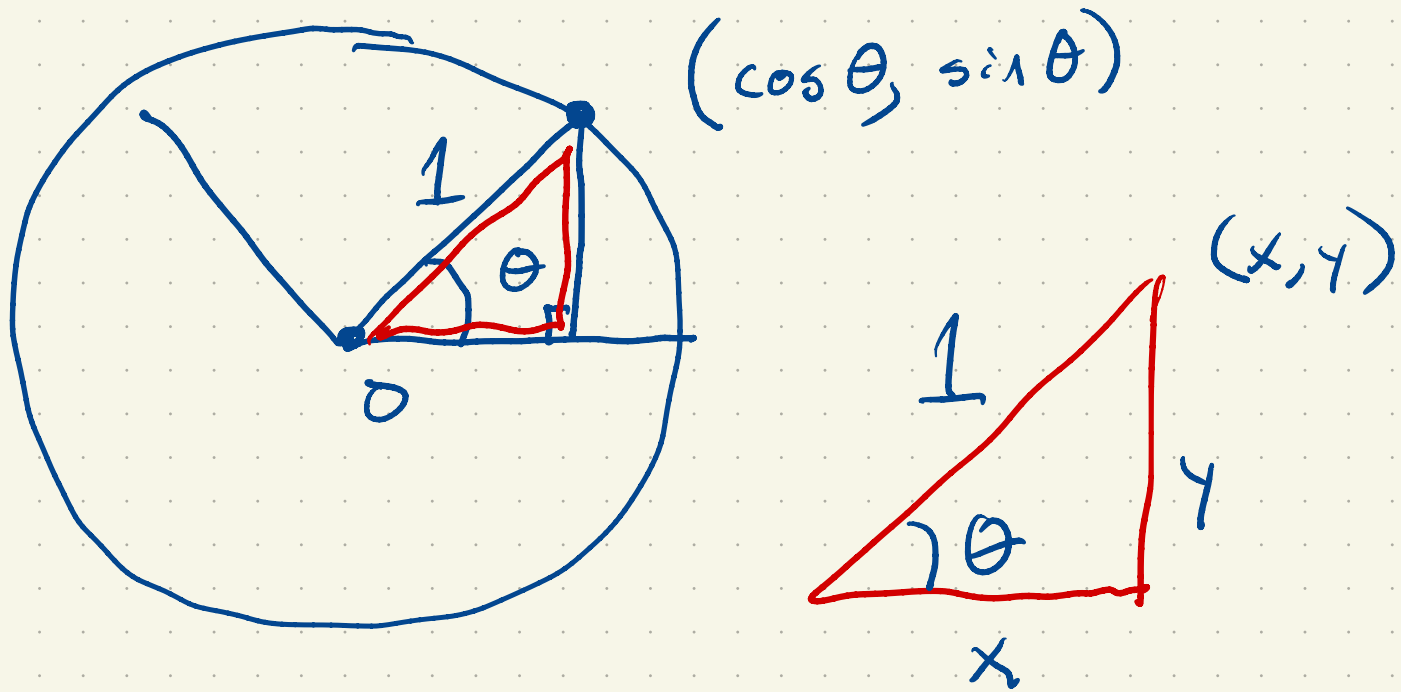
$$\cos \theta = \frac{a}{c}$$

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

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

$$\sec \theta = \frac{1}{\cos \theta} = \frac{c}{a}$$

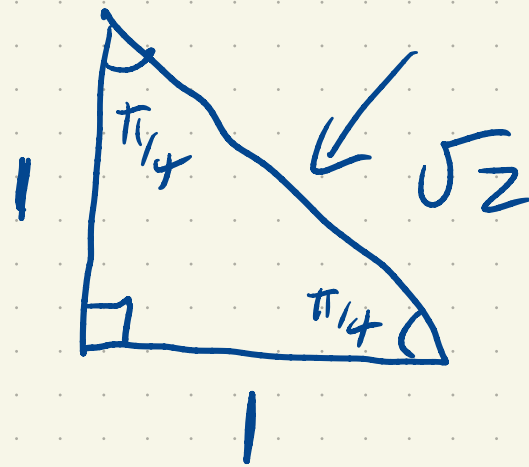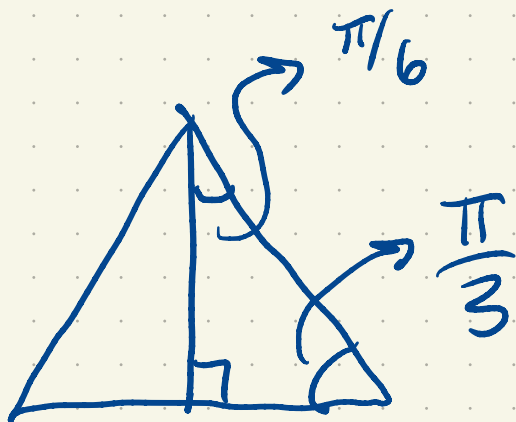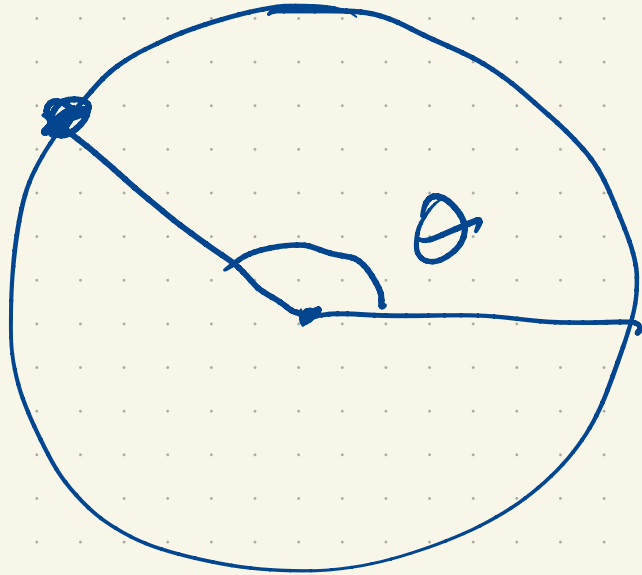$$\csc \theta = \frac{1}{\sin \theta} = \frac{c}{b}$$

$$\cot \theta = \frac{1}{\tan \theta} = \frac{a}{b}$$
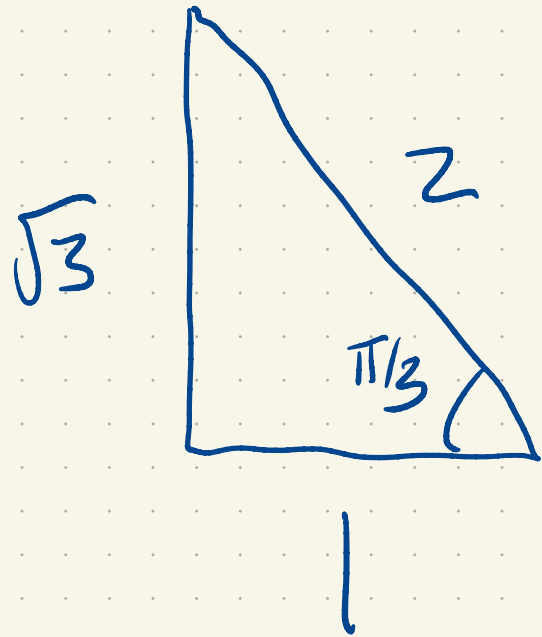
$(\cos\theta, \sin\theta)$

(x, y)

$$\cos\theta = \frac{x}{1} = x$$

$$\sin\theta = \frac{y}{1} = y$$

$(\cos\theta, \sin\theta)$

θ

$\pi/6$

$\pi/3$

$a^2 + b^2 = c^2$

$\pi/4$

$\sqrt{2}$

$\pi/4$

1

1

$\cos\dfrac{\pi}{4} = \dfrac{1}{\sqrt{2}}$

$$\cos \pi/3 = \frac{1}{2}$$

$$\tan \pi/3 = \frac{\sqrt{3}}{1} = \sqrt{3}$$