

Positive Trig Ratios:

Students | All

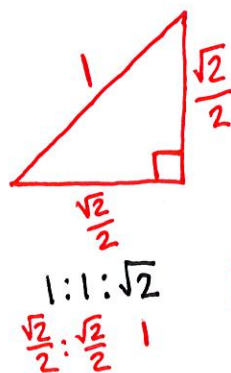
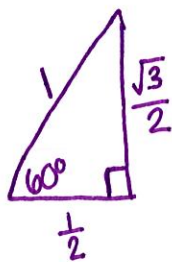
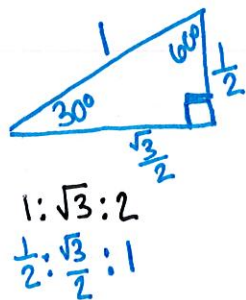
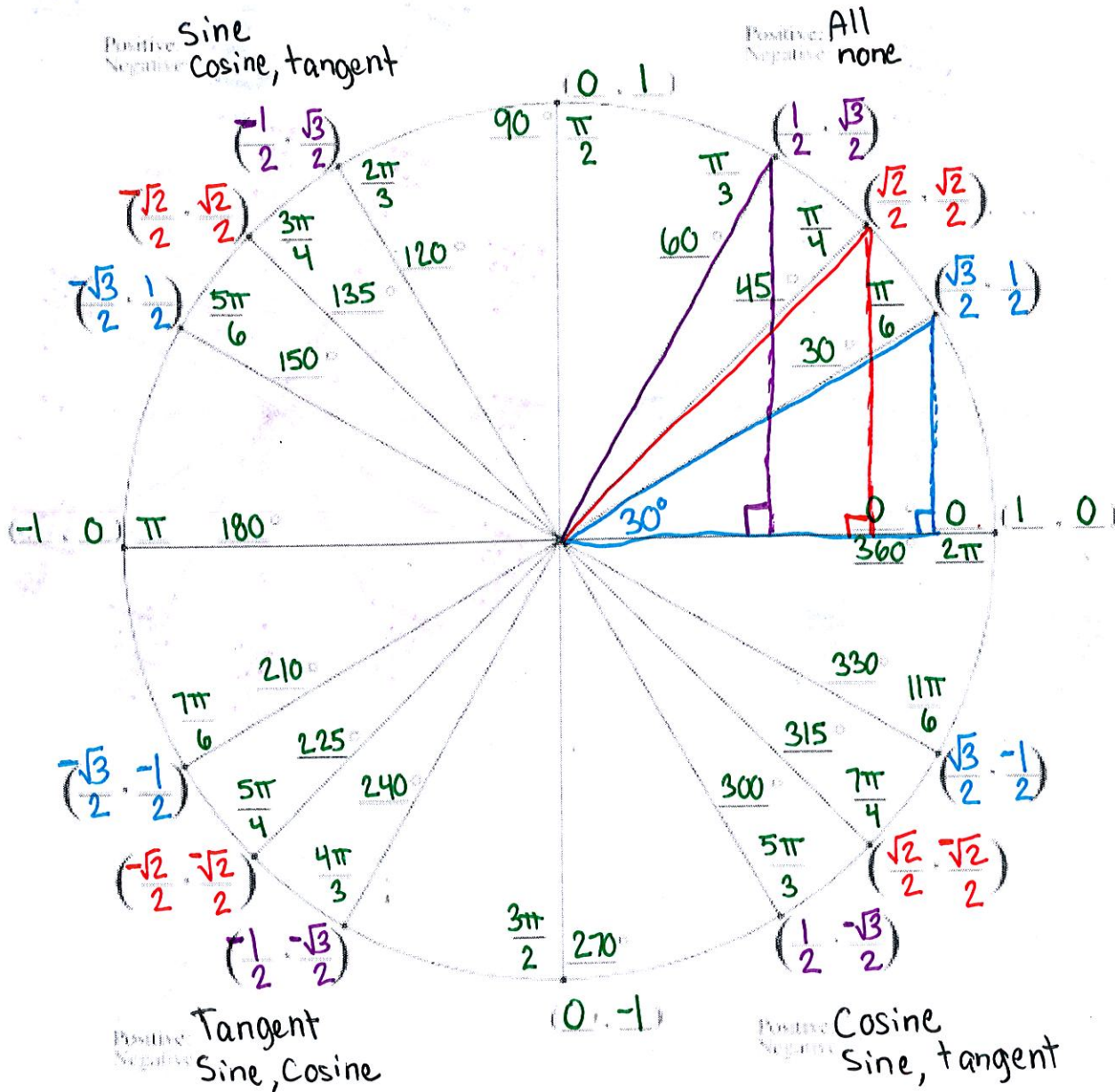
Take | Calculus

$(x, y)$

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

$$\tan\theta = \frac{\sin\theta}{\cos\theta}$$

# Fill in The Unit Circle



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

$$\sin 30^\circ = \frac{\frac{1}{2}}{1} = \frac{1}{2} \quad \cos 30^\circ = \frac{\frac{\sqrt{3}}{2}}{1} = \frac{\sqrt{3}}{2}$$

$$\sin 60^\circ = \frac{\frac{\sqrt{3}}{2}}{1} = \frac{\sqrt{3}}{2} \quad \cos 60^\circ = \frac{\frac{1}{2}}{1} = \frac{1}{2}$$

$$\tan 30^\circ = \frac{\frac{1}{2}}{\frac{\sqrt{3}}{2}} = \frac{1}{2} \cdot \frac{2}{\sqrt{3}} = \frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{3}$$