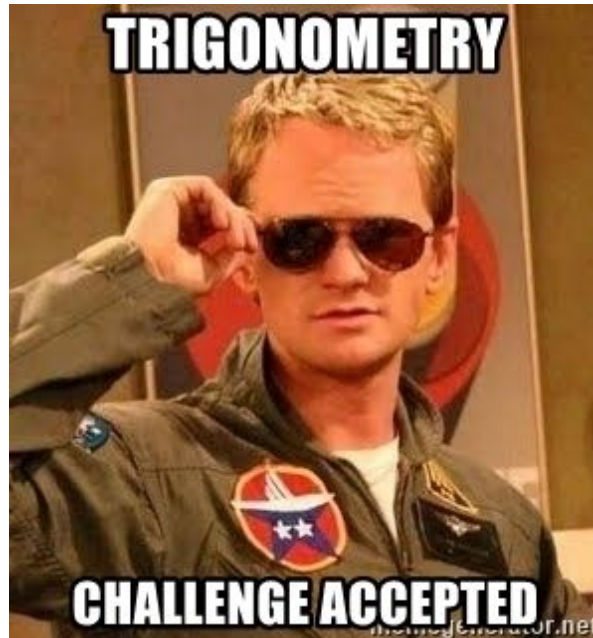
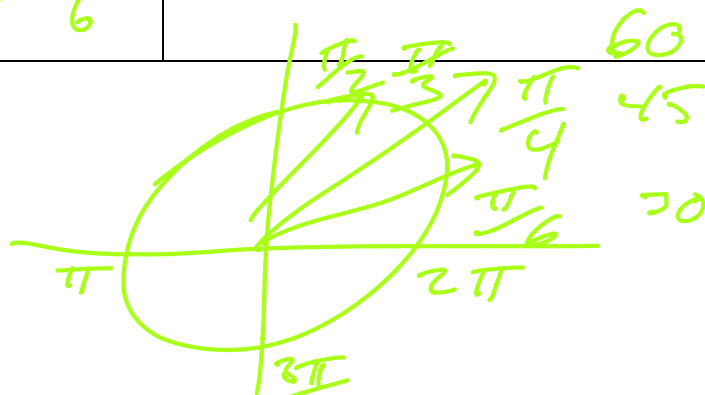


Trig Ratio: More of the Same



Solve for θ

<p>$\sin(\theta) = 0.5, 0^\circ \leq \theta < 360^\circ$</p> <p>$\sin \theta = \frac{1}{2}$</p> <p>$\theta = \frac{\pi}{6}$</p> <p>$\theta = \frac{\pi}{6}, \frac{5\pi}{6}$</p>	<p>$\cos(\theta) = -\frac{\sqrt{3}}{2}, 0^\circ \leq \theta < 360^\circ$</p>
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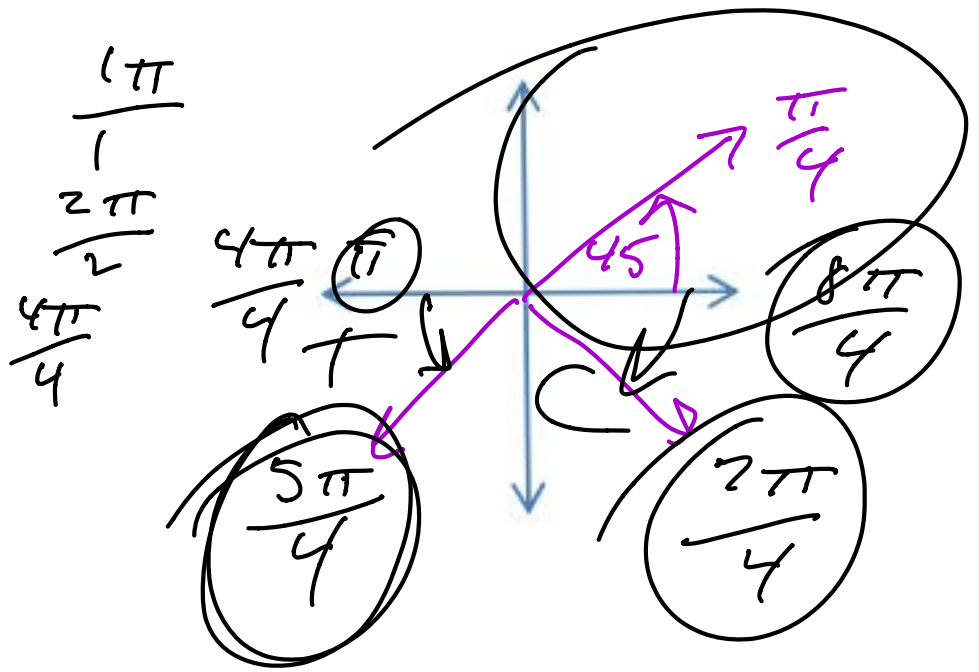
You try:

Solve for θ :

$$\sin(\theta) = -\frac{1}{\sqrt{2}}, 0^\circ \leq \theta < 360^\circ$$

$$\theta_r = 45$$

$$\begin{aligned} 1 + \frac{1}{4} \\ \frac{4}{4} + \frac{1}{4} \\ = \frac{5}{4} \end{aligned}$$



Determine θ to the nearest tenth of a degree given that

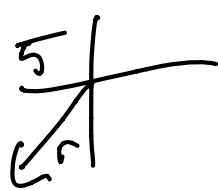
$$\cos(\theta) = -0.6753.$$

$$\begin{aligned} \theta &= \cos^{-1}(-.6753) \\ &= 2.31 \end{aligned}$$

Determine θ to the nearest tenth of a degree given that $\sin(\theta) = -0.8090$.

$$\theta = -0.94$$

Suppose θ is an angle in standard position with terminal arm in Q3, and $\tan(\theta) = \frac{1}{5}$. Determine the exact values of $\sin(\theta)$ and $\cos(\theta)$.



$$r = \sqrt{1^2 + 5^2} \\ = \sqrt{26}$$

$$\sin \theta = -\frac{1}{\sqrt{26}} = -\frac{\sqrt{26}}{26}$$

$$\cos \theta = -\frac{5}{\sqrt{26}} = -\frac{5\sqrt{26}}{26}$$

Pg 98 15-17