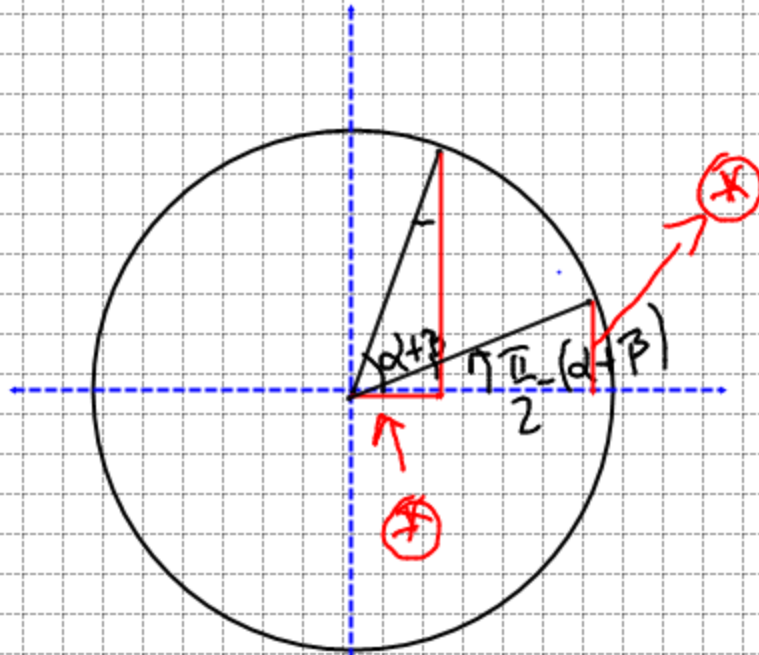
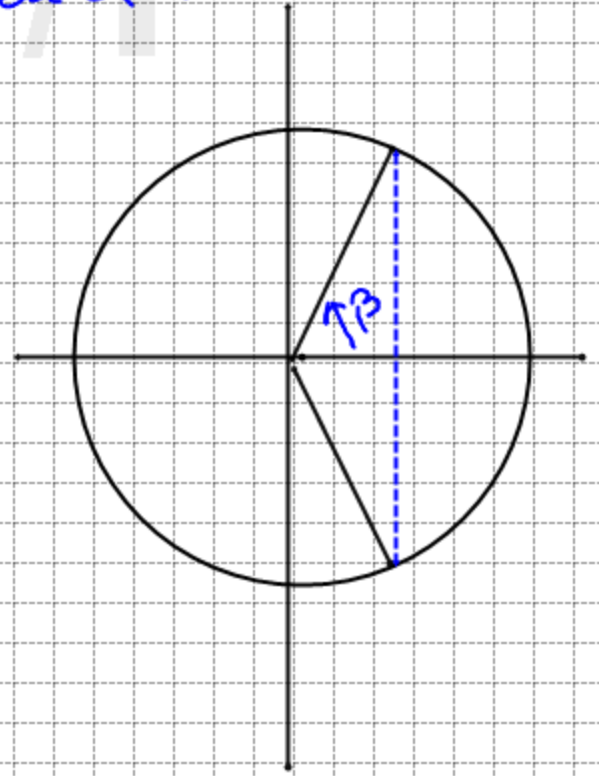


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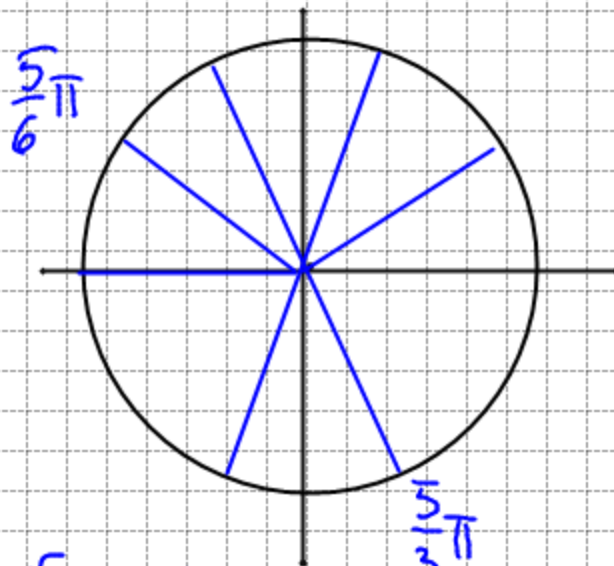
$$\begin{aligned}\cos\left(\frac{\pi}{3} - \alpha\right) &= \cos\frac{\pi}{3}\cos\alpha + \sin\frac{\pi}{3}\sin\alpha = \\ &= \frac{1}{2}\cos\alpha + \frac{\sqrt{3}}{2}\sin\alpha\end{aligned}$$



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$$\sin\left(\frac{5}{3}\pi - \alpha\right) + \cos\left(\frac{5}{6}\pi + \alpha\right) = -\sqrt{3}\cos\alpha - \sin\alpha$$

$$\sin\frac{5}{3}\pi\cos\alpha - \cos\frac{5}{3}\pi\sin\alpha + \cos\frac{5}{6}\pi\cos\alpha - \sin\frac{5}{6}\pi\sin\alpha = -\sqrt{3}\cos\alpha - \sin\alpha$$



$$\underbrace{-\frac{\sqrt{3}}{2}\cos\alpha - \frac{1}{2}\sin\alpha}_{\text{red bracket}} - \underbrace{\frac{\sqrt{3}}{2}\cos\alpha - \frac{1}{2}\sin\alpha}_{\text{red bracket}} = -\sqrt{3}\cos\alpha - \sin\alpha$$

$$-\sqrt{3}\cos\alpha - \sin\alpha = -\sqrt{3}\cos\alpha - \sin\alpha$$