

$$kx - 2k^2y + k^{2012} = 0$$

$$30^\circ = ?$$

$$y = \frac{kx + k^{2012}}{2k^2}$$

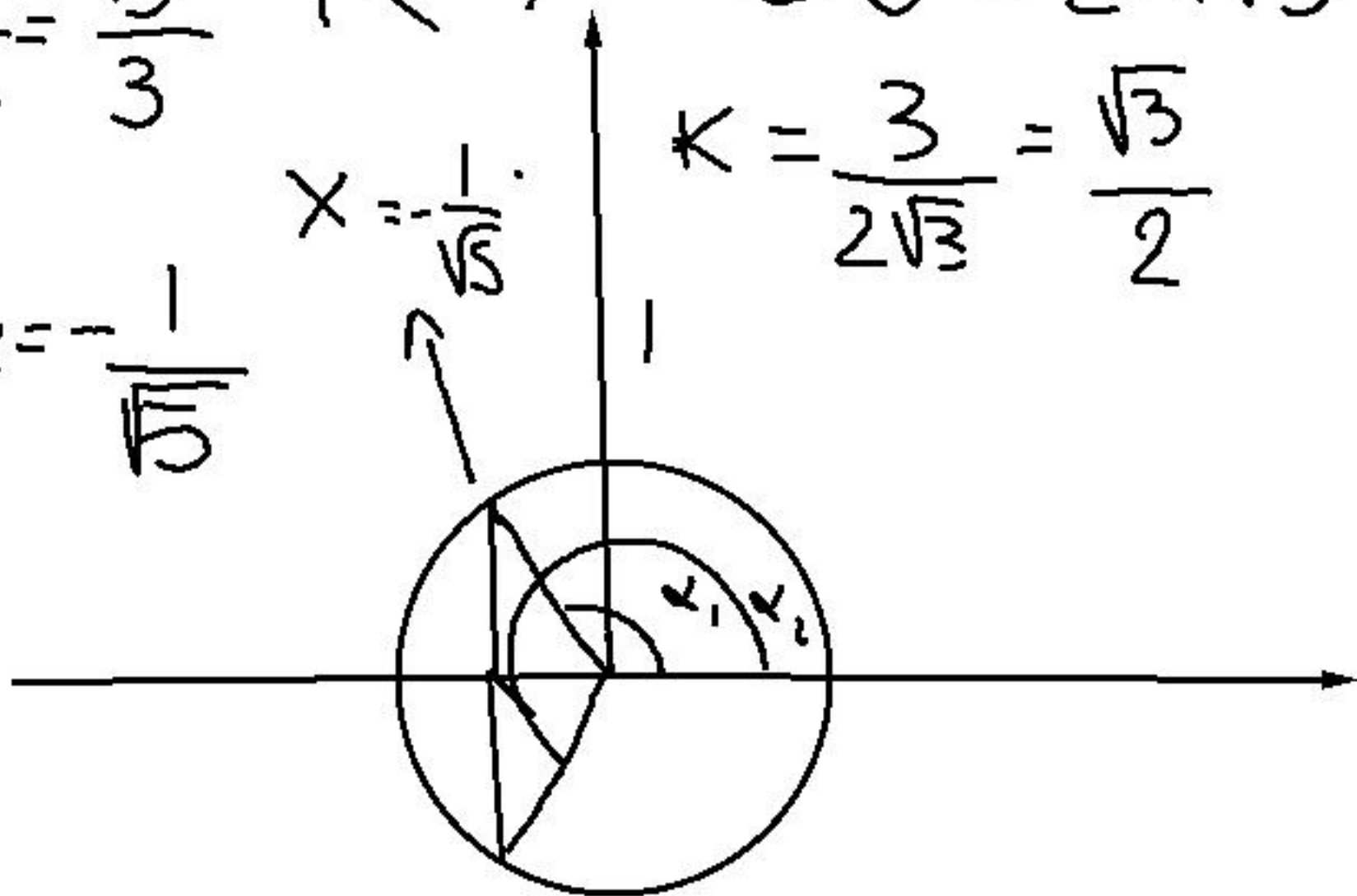
$$\frac{k}{2k^2} = \frac{1}{2} \cdot \frac{2}{\sqrt{3}}$$

$$\frac{k}{2k^2} = \frac{\sqrt{3}}{3} \quad k \neq 0 \quad 3 = 2k\sqrt{3}$$

$$k = \frac{3}{2\sqrt{3}} = \frac{\sqrt{3}}{2}$$

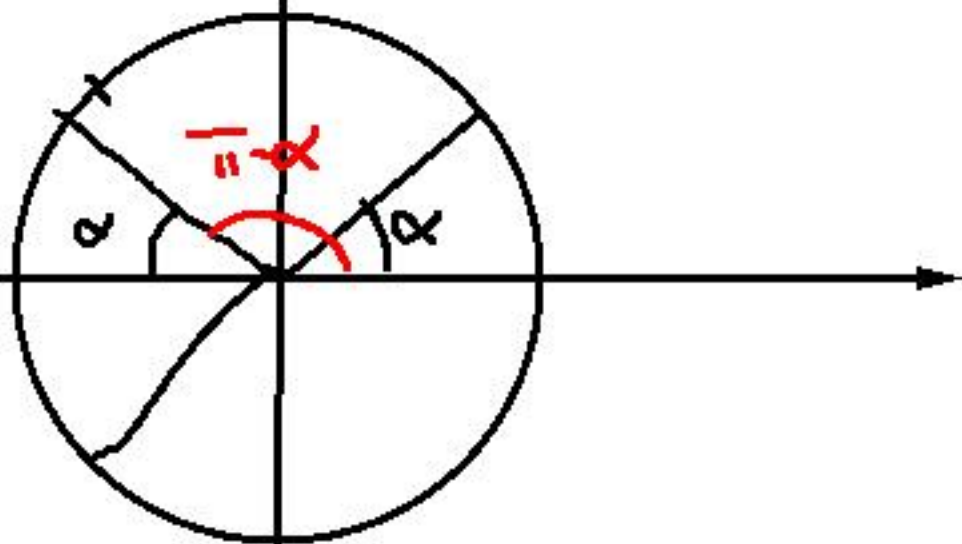
$$\cos \alpha = -\frac{1}{\sqrt{11}}$$

$$x = \frac{1}{\sqrt{11}}$$

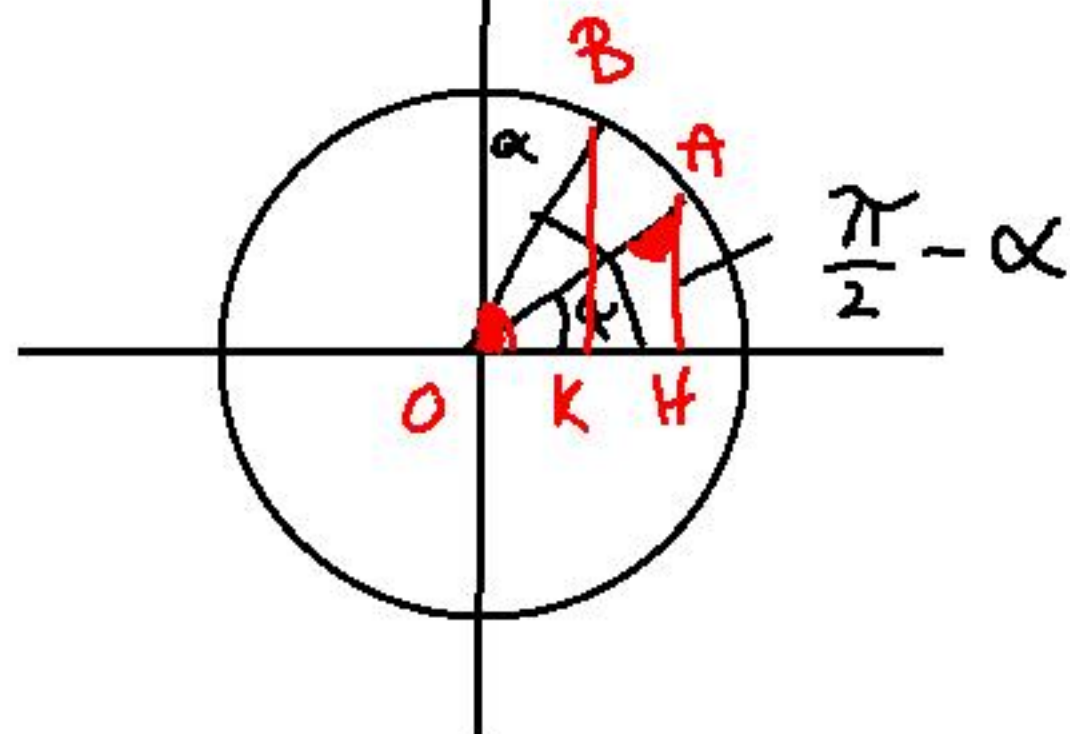


$$\sin\left(\frac{\pi}{2} - \alpha\right) = \cos \alpha$$

$$\sin\left(\frac{\pi}{2} + \alpha\right) = \cos \alpha$$



$$\sin\left(\frac{\pi}{2} - \alpha\right) = \cos \alpha$$



$$\triangle OKB = \triangle OHA$$

$$\overline{AH} = \overline{OK} \rightarrow \sin \alpha = \cos\left(\frac{\pi}{2} - \alpha\right)$$

$$\overline{BK} = \overline{OH} \rightarrow \sin\left(\frac{\pi}{2} - \alpha\right) = \cos \alpha$$

$$\sin \alpha = \cos\left(\frac{\pi}{2} - \alpha\right)$$

$$\sin \alpha = \cos\left(\alpha - \frac{\pi}{2}\right)$$

