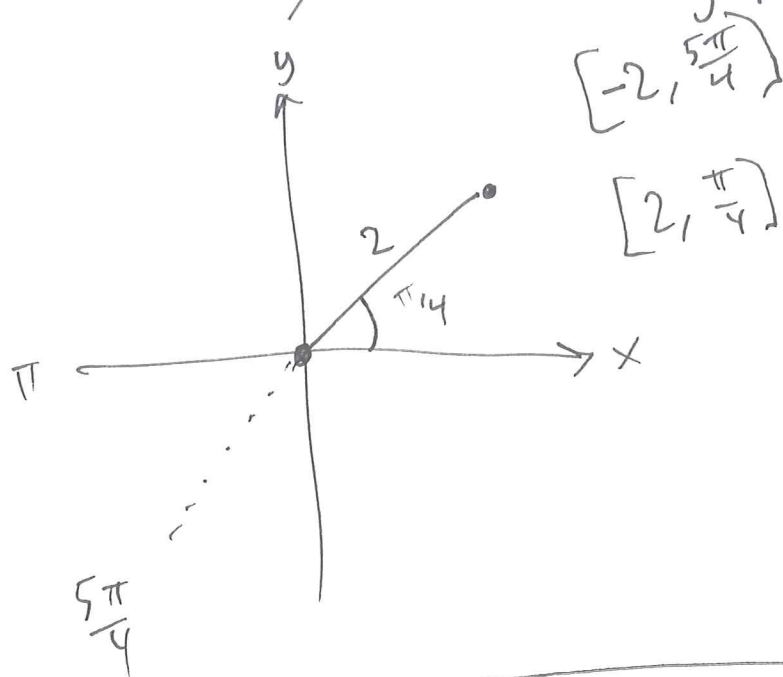




8.5.25

$$r = \sqrt{3} \cdot \cos \theta = f(\theta)$$

$$r = \sin \theta = g(\theta)$$

① $f(\theta) = 0$

$$\sqrt{3} \cdot \cos \theta = 0$$

$$\cos \theta = 0$$

$$\theta = \left\{ \frac{\pi}{2}, \frac{3\pi}{2} \right\}$$

(løsning)

$$g(\theta) = 0$$

$$\sin \theta = 0$$

$$\theta = \{0, \pi\}$$

(løsning)

skjæring i origo; $[0, 0]$

②

$$f(\theta) = g(\theta)$$

Qut 6

②

$$\frac{\sqrt{3} \cdot \cancel{\cos \theta}}{\cancel{\cos \theta}} = \frac{\sin \theta}{\cos \theta}$$

$$\tan \theta = \sqrt{3}$$

$$\theta = \left\{ \frac{\pi}{3}, \frac{4\pi}{3} \right\}$$

↑
 θ_1

↑
 θ_2

$$g\left(\frac{\pi}{3}\right) = \sin \frac{\pi}{3} = \frac{\sqrt{3}}{2} \Rightarrow$$

$$\left[\frac{\sqrt{3}}{2}, \frac{\pi}{3} \right]$$

$$g\left(\frac{4\pi}{3}\right) = \sin \frac{4\pi}{3} = -\frac{\sqrt{3}}{2} \Rightarrow \left[-\frac{\sqrt{3}}{2}, \frac{4\pi}{3} \right]$$

$$= \left[\frac{\sqrt{3}}{2}, \frac{4\pi}{3} - \pi \right]$$

$$= \left[\frac{\sqrt{3}}{2}, \frac{\pi}{3} \right]$$

$$f(\theta) = \sqrt{3} \cdot \cos \theta$$

$$g(\theta) = \sin \theta$$

Qut 6

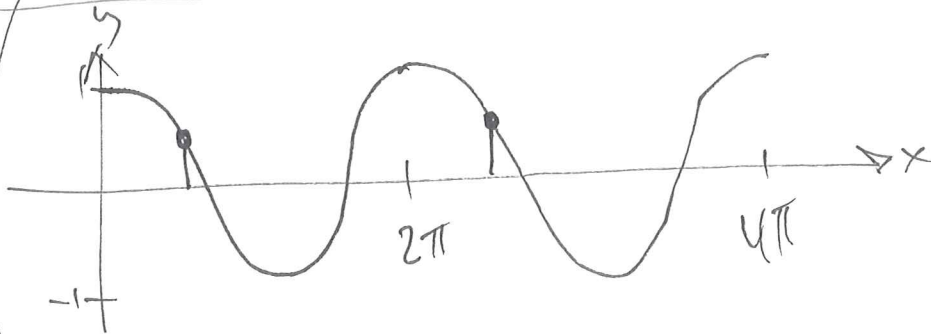
3

3

$$f(\theta + (2k+1)\pi) = -g(\theta)$$

$$\sqrt{3} \cdot \cos(\theta + (2k+1)\pi) = -\sin \theta$$

$$\sqrt{3} \cdot \cos(\theta + \underline{2\pi \cdot k} + \pi) = -\sin \theta$$



$$\sqrt{3} \cos(\theta + \pi) = -\sin \theta$$

$$\frac{+\sqrt{3} \cancel{\cos \theta}}{+\cancel{\cos \theta}} = \frac{-\sin \theta}{+\cancel{\cos \theta}}$$

$$\tan \theta = \sqrt{3}$$

(som vi fant i step 2)