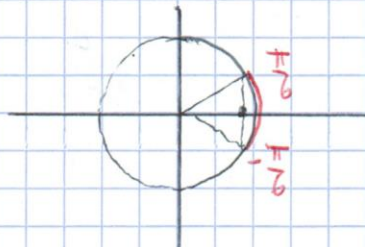


no 30 p 167

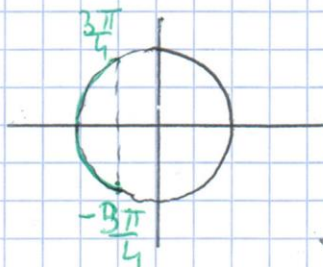
1) a)



$$\cos(x) > \frac{\sqrt{3}}{2}$$

$$I = \left[-\frac{\pi}{6}; \frac{\pi}{6}\right]$$

b)

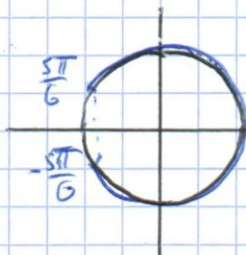


$$\cos(x) + 1 \leq \frac{1}{2}$$

$$\cos(x) \leq -\frac{1}{2}$$

$$I = \left[-\pi; -\frac{3\pi}{4}\right] \cup \left[\frac{3\pi}{4}; \pi\right]$$

c)



On s'occupe d'abord de l'ens. de def:

$$-\frac{\pi}{3} \leq x \leq \frac{\pi}{3}$$

$$-\pi \leq 3x \leq \pi$$

$$-\pi \leq X \leq \pi$$

$$\cos(3x) > -\frac{\sqrt{3}}{2} \Leftrightarrow$$

$$\cos(X) > -\frac{\sqrt{3}}{2}$$

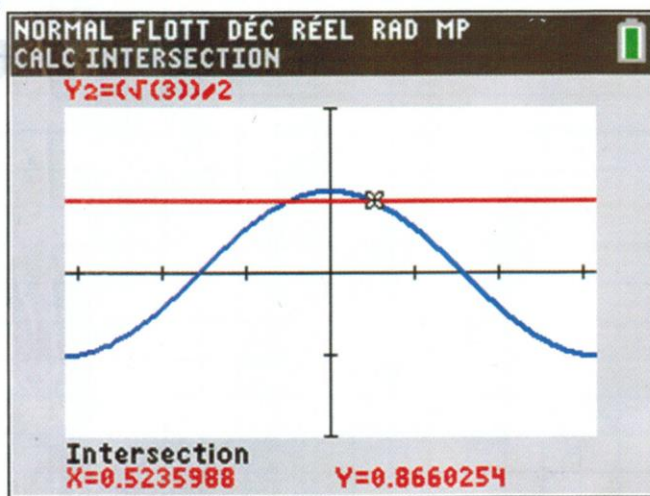
$$-\frac{5\pi}{6} \leq X \leq \frac{5\pi}{6} \text{ avec } -\pi \leq X \leq \pi$$

$$-\frac{5\pi}{6} \leq 3x \leq \frac{5\pi}{6}$$

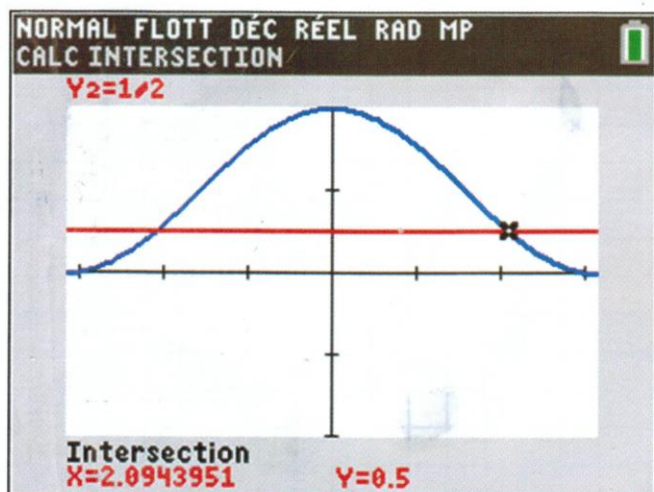
$$-\frac{5\pi}{18} \leq x \leq \frac{5\pi}{18}$$

$$I = \left[-\frac{5\pi}{18}; \frac{5\pi}{18}\right]$$

2) a)



b)



c)

