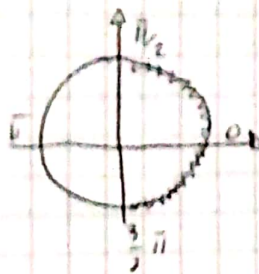


$$1) \cos(x) > 0$$

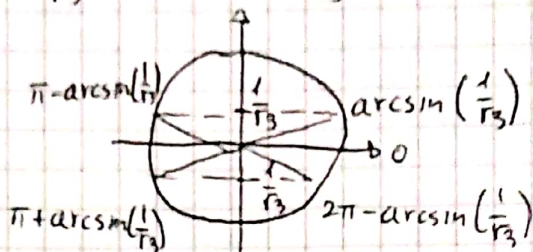
$$\boxed{0 < x < \frac{\pi}{2} \vee \frac{3\pi}{2} < x < 2\pi}$$



$$2) \sin^2(x) < \frac{1}{3} \rightarrow -\frac{1}{\sqrt{3}} < \sin(x) < +\frac{1}{\sqrt{3}}$$

$$a) \begin{cases} \sin(x) > -\frac{1}{\sqrt{3}} \end{cases}$$

$$b) \begin{cases} \sin(x) < +\frac{1}{\sqrt{3}} \end{cases}$$

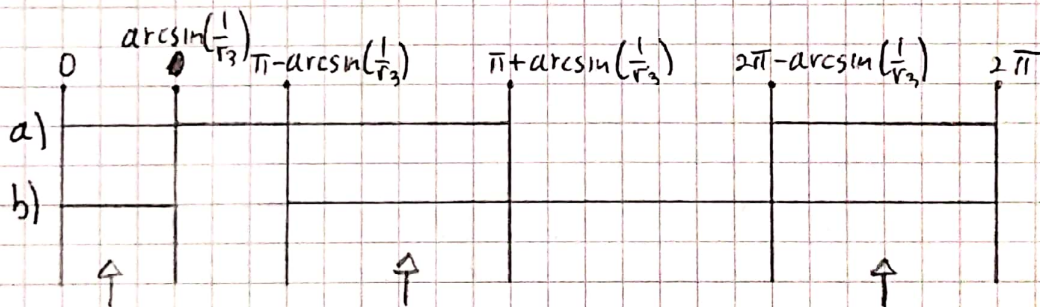


$$a) \sin(x) > -\frac{1}{\sqrt{3}} \Rightarrow 0 < x < \pi + \arcsin\left(\frac{1}{\sqrt{3}}\right) \vee$$

$$2\pi - \arcsin\left(\frac{1}{\sqrt{3}}\right) < x < 2\pi$$

$$b) \sin(x) < +\frac{1}{\sqrt{3}} \Rightarrow 0 < x < \arcsin\left(\frac{1}{\sqrt{3}}\right)$$

$$\pi - \arcsin\left(\frac{1}{\sqrt{3}}\right) < x < 2\pi$$



$$\begin{cases} 0 < x < \arcsin\left(\frac{1}{\sqrt{3}}\right) \\ \pi - \arcsin\left(\frac{1}{\sqrt{3}}\right) < x < \pi + \arcsin\left(\frac{1}{\sqrt{3}}\right) \\ 2\pi - \arcsin\left(\frac{1}{\sqrt{3}}\right) < x < 2\pi \end{cases}$$

Soluzioni per $\sin^2(x) < \frac{1}{3}$

Tabella finale:

	0	$\arcsin\left(\frac{1}{\sqrt{3}}\right)$	$\frac{\pi}{2}$	$\pi - \arcsin\left(\frac{1}{\sqrt{3}}\right)$	$\pi + \arcsin\left(\frac{1}{\sqrt{3}}\right)$	$\frac{3\pi}{2}$	$2\pi - \arcsin\left(\frac{1}{\sqrt{3}}\right)$	2π
1)	+	+	-	-	-	+	+	
2)	+	-	-	+	-	-	+	
	+	-	+	-	+	-	+	