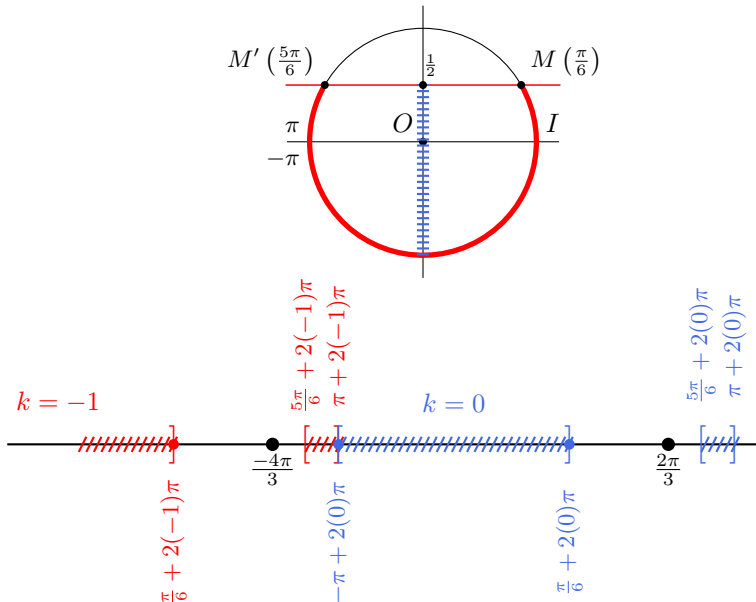


Résoudre: $x \in [-\pi, \pi]$ $\sin(x - \frac{\pi}{3}) \leq \frac{1}{2}$

On pose $t = x - \frac{\pi}{3}$ càd $x = t + \frac{\pi}{3}$

et puisque $x \in [-\pi, \pi]$ càd $x - \frac{\pi}{3} \in [-\frac{4\pi}{3}, \frac{2\pi}{3}]$

Ainsi $t \in [-\frac{4\pi}{3}, \frac{2\pi}{3}]$ $\sin t \leq \frac{1}{2}$



Alors $t \in [-\frac{7\pi}{6}, \frac{\pi}{6}]$

càd $x = t + \frac{\pi}{3} \in [-\frac{5\pi}{6}, \frac{\pi}{2}]$

Donc $S = [-\frac{5\pi}{6}, \frac{\pi}{2}]$