

2.63  
S

$$\sin\left(x - \frac{\pi}{6}\right) + \sin\left(x - \frac{\pi}{3}\right) + \sin 2x < 1$$

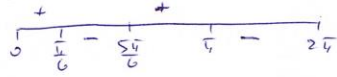
$$\sin\left(\frac{2\pi}{3} - x\right) + \sin\left(x - \frac{\pi}{3}\right) + \sin 2x < 1$$

$$2\sin\frac{\pi}{6} \cos\left(\frac{\pi}{2} - x\right) + \sin 2x < 1$$

$$\sin x + 1 - 2\sin^2 x < 1$$

$$\sin x(1 - 2\sin x) < 0$$

$$\begin{array}{l} \swarrow \quad \searrow \\ x = \pi k \quad x = \frac{\pi}{6} + 2\pi k \\ \quad \quad \quad x = \frac{5\pi}{6} + 2\pi k \end{array}$$



$$2\pi k + \pi < x < 2\pi + 2\pi k$$

$$\frac{\pi}{6} + 2\pi k < x < \frac{5\pi}{6} + 2\pi k$$

$$\boxed{\begin{array}{l} \pi < x < 2\pi \\ \frac{\pi}{6} < x < \frac{5\pi}{6} \end{array}}$$

1/2 pi pi pi