

2.42
7

$$\sin^3 x + \cos^3 x > \cos x$$

$$\sin^3 x + \cos x (\cos^2 x - 1) > 0$$

$$\sin^3 x + \cos x \sin^2 x > 0$$

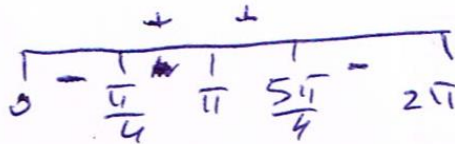
$$\sin^2 x (\sin x + \cos x) > 0$$

\downarrow

$$x = \pi k$$

\downarrow

$$x = \frac{\pi}{4} + \pi k$$



$$\boxed{\frac{\pi}{4} + 2\pi k < x < \frac{5\pi}{4} + 2\pi k}$$
$$x \neq \pi k$$