

3.71  
4

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

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

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

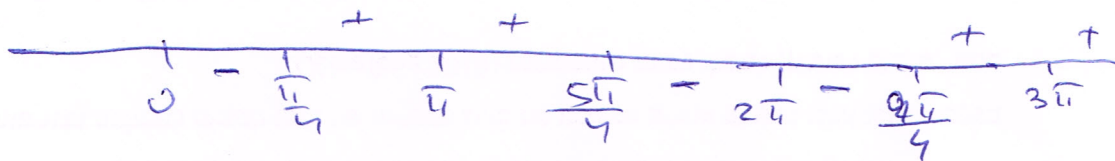
$$\sin^2 x (\sin x - \cos x) > 0$$

$$\downarrow$$
$$\sin x = 0$$

$x = \pi k$   
(все случаи)  
(2 случая)

$$\downarrow$$
$$\sin x = \cos x / (\cos x \neq 0)$$

$$\tan x = 1$$
$$x = \frac{\pi}{4} + \pi k$$



$$\frac{\pi}{4} + 2\pi k \leftarrow x \leftarrow \frac{5\pi}{4} + 2\pi k$$

$$x \neq \pi k$$