

3.74
4

$$4 \sin x \cos^3 x + 3 \cos x = 6 \sin x + 2 \cos^4 x$$

$$2 \cos^3 x (2 \sin x - \cos x) - 3 (2 \sin x - \cos x) \geq 0$$

$$(2 \cos^3 x - 3) (2 \sin x - \cos x) \geq 0$$

↓
לפי 3.71

$$2 \sin x - \cos x \leq 0$$

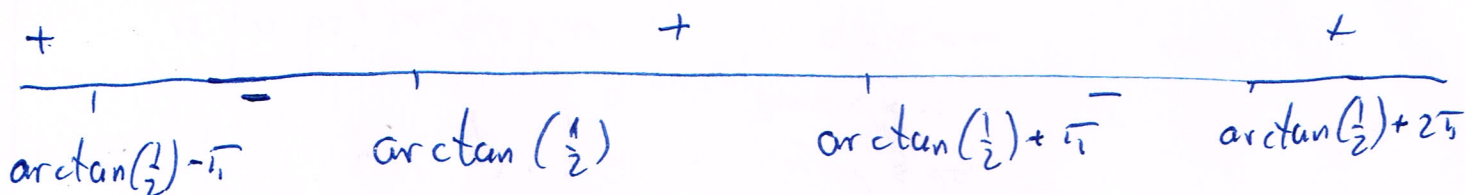
אם $\cos x = 0$ (אז $\sin x = \pm 1$)
(אז $\sin x = 1$)
(אז $\sin x = -1$)

$$2 \sin x = \cos x$$

אם $\cos x \neq 0$

$$\tan x = \frac{1}{2}$$

$$x = \arctan\left(\frac{1}{2}\right) + \pi k$$



אם $\cos x \neq 0$

$$2\pi k + \arctan\left(\frac{1}{2}\right) - \pi \leq x \leq \arctan\left(\frac{1}{2}\right) + 2\pi k$$