

3.93

P11 J1021/

6. k.

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

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

$$2(\sin x - \cos x) + (\sin^2 x - \cos^2 x) \leq 0$$

$$(\sin x - \cos x) [2 + (\sin x + \cos x)] \leq 0$$

$$\sqrt{2} \sin \left(x - \frac{\pi}{4}\right) \left[2 + \sqrt{2} \sin \left(x + \frac{\pi}{4}\right)\right] \leq 0$$

max 1
min -1

אם \sin שלילי
אם \sin חיובי

~~$$\sqrt{2} \sin \left(x - \frac{\pi}{4}\right) \leq 0$$~~

$$2\pi k + \pi \leq x - \frac{\pi}{4} \leq 2\pi + 2\pi k$$

$$\frac{5}{4}\pi + 2\pi k \leq x \leq \frac{9}{4}\pi + 2\pi k \quad (k=0, \pm 1, \pm 2, \dots)$$

2

$$-\frac{3}{4}\pi + 2\pi N \leq x \leq \frac{\pi}{4} + 2\pi N$$

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