

2.81  
1.5

$$\sin^4 x + \cos^4 x = \frac{1}{4} (3 - \cos 6x)$$

$$(\sin^2 x + \cos^2 x)^2 - 2\sin^2 x \cos^2 x = \frac{1}{4} (3 - \cos 6x)$$

$$1 - \frac{1}{2} \sin^2 2x = \frac{1}{4} (3 - \cos 6x) \quad / \cdot 4$$

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

$$1 + \cos 6x = 2\sin^2 2x$$

$$\frac{1 + \cos 6x}{2} = \frac{1 - \cos 4x}{2}$$

$$\cos 6x = \cos (\pi - 4x)$$

$$6x = \pi - 4x + 2\pi k$$

$$x = \frac{\pi}{10} + \frac{\pi}{5} k$$

kenol/n idv  
 $1 - \cos 2x = 2\sin^2 x$

$$6x = -(\pi - 4x) + 2\pi k$$

$$x = -\frac{\pi}{2} + \pi k$$

• (paz)pa pndpa k=1 n'az p'pnd)  $x = \frac{\pi}{2} + \pi k$  ! n n b