

2.48  
x7

$$\cos 2x - \cos x = 2 \cos^2 x + \cos x (1 - 2 \cos x)$$

$$2 \cos x \cos x - \cos x = 2 \cos^2 x + \cos x (1 - 2 \cos x)$$

$$\cos x (2 \cos x - 1) = 2 \cos^2 x + \cos x (1 - 2 \cos x)$$

$$(2 \cos x - 1)(\cos x + \cos x) = 2(\cos^2 x - \cos^2 x)$$

$$(2 \cos x - 1)(\cos x + \cos x) = 2(\cos x - \cos x)(\cos x + \cos x)$$

$$2 \cos x - 1 = 2(\cos x - \cos x)$$

$$-1 = -2 \cos x$$

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

$$\cos x = \cos x$$

$$\cos x = -1$$

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

$$\boxed{\begin{aligned} x &= \frac{\pi}{6} + 2\pi k \\ x &= \frac{5\pi}{6} + 2\pi k \end{aligned}}$$