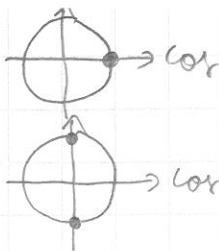
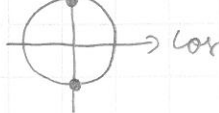


6.6 a) $\cos x = 1$
 $\Leftrightarrow x = m2\pi, m \in \mathbb{Z}$



$\Gamma \cos x = 1 \equiv \cos 0$
 $\Leftrightarrow x = \pm 0 + m2\pi$

b) $\cos x = 0$
 $\Leftrightarrow x = \frac{\pi}{2} + m\pi, m \in \mathbb{Z}$



$\Gamma \cos x = 0 = \cos \frac{\pi}{2}$
 $\Leftrightarrow x = \pm \frac{\pi}{2} + m2\pi$

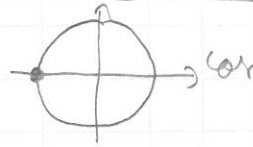
c) $\cos 2x = 0$

$\Leftrightarrow 2x = \frac{\pi}{2} + m\pi \quad | :2 \quad \Leftrightarrow x = \frac{\pi}{4} + m\frac{\pi}{2}, m \in \mathbb{Z}$

d) $\cos 2x = -1$

$\Leftrightarrow 2x = \pi + m2\pi \quad | :2$

$\Leftrightarrow x = \frac{\pi}{2} + m\pi, m \in \mathbb{Z}$



$\Gamma \cos 2x = -1 = \cos \pi$
 $\Leftrightarrow 2x = \pm \pi + m2\pi$

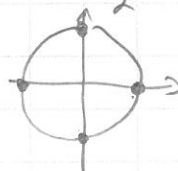
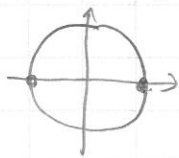
6.10 a) $\cos 3x = \cos x$

$\Leftrightarrow 3x = x + m2\pi \quad \text{tai} \quad 3x = -x + m2\pi$

$\Leftrightarrow 2x = m2\pi \quad | :2 \quad \text{tai} \quad 4x = m2\pi \quad | :4$

$\Leftrightarrow x = m\pi$

$\text{tai} \quad x = m\frac{\pi}{2}$



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$x = m\frac{\pi}{2}, m \in \mathbb{Z}$

$\Gamma \cos 3x = \cos \frac{\pi}{6}$

$\Leftrightarrow 3x = \pm \frac{\pi}{6} + m2\pi$



b) $x \in [-\pi, \pi] : -\pi, -\frac{\pi}{2}, 0, \frac{\pi}{2}, \pi$

6.11 a) $\cos^2 x - \sin^2 x = -1$

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

$\Leftrightarrow \sin^2 x = 1 - \cos^2 x$

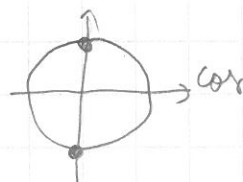
$\Leftrightarrow \cos^2 x - (1 - \cos^2 x) = -1$

$\Leftrightarrow 2\cos^2 x = 0 \quad | :2$

$\Leftrightarrow \cos^2 x = 0 \quad | \sqrt{}$

$\Leftrightarrow \cos x = 0$

$\Leftrightarrow x = \frac{\pi}{2} + m\pi, m \in \mathbb{Z}$



$\Gamma \text{TAI} : \cos^2 x - \sin^2 x = -1$

$\cos 2x = -1$

$\Leftrightarrow 2x = \pi + m2\pi \quad | :2$

$\Leftrightarrow x = \frac{\pi}{2} + m\pi, m \in \mathbb{Z}$

