② a) $x(0) = \cos\left(\dfrac{0\pi}{2}\right) = 1$ $x(2) = \cos\left(\dfrac{2\pi}{8}\right) = -2$

$x(1) = \cos\left(\dfrac{1\pi}{2}\right) = 0$ $x(3) = \cos\left(\dfrac{3\pi}{2}\right) = 0$

$$X[k] = 1 - e^{-2k\frac{2\pi}{4}\cdot 2}$$

$x(n)$ para x ... $x(n) = \delta(n) - \delta(n-2)$