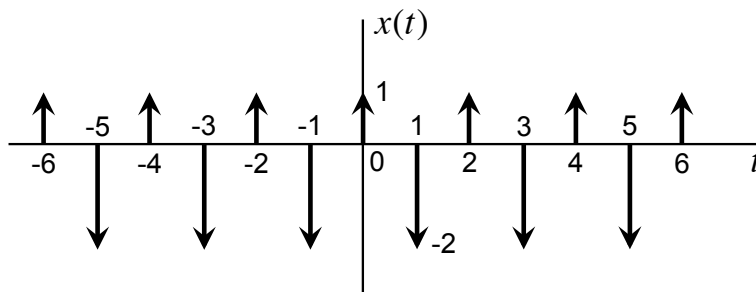# EE3210 Signals and Systems

Tutorial 6

Problem 1: Determine the Fourier series coefficients for each of the following three continuous-time periodic signals:

(a) $x(t) = \cos(4\pi t)$

(b) $x(t) = \sin(4\pi t)$

(c) $x(t) = \cos(4\pi t)\sin(4\pi t)$

Problem 2: Determine the Fourier series coefficients of the following continuous-time periodic signal $x(t)$:

Problem 3: Determine the Fourier series coefficients of the following continuous-time periodic signal $x(t)$: