

Signals and Systems(KEC-403)

Unit-01

Assignment 103



By

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Que:- find whether following functions are periodic or not.

(i) $x(t) = 2 \cos(10t + 1) - \sin(4t - 1)$

(ii) $\cos 60\pi t + \sin 50\pi t$

(iii) $2u(t) + 2\sin 2t$

(iv) $3\cos 4t + 2\sin 2\pi t$

(v) $u(t) - \frac{1}{2}$

(vi) $\sin^2 t$

(vii) $3\cos(17\pi t + \pi/3) + 2\sin(19\pi t - \pi/3)$

(viii) $\cos(\frac{1}{3}t) + \sin(\frac{1}{4}t)$

(ix) $12 e^{j(4t + \pi/2)} + 9 e^{j(3\pi t + \pi/3)}$