Sessional-I

Signals and Systems

Q1. Check the periodicity for signal $x(t) = \text{odd}\{\sin(4*\pi*t) * u(t)\}$ (5)

Q2. Determine $x(t-5) - x(t+5)$ for $x(t) = u(-2t+3)$. (3)

Q3. Explain energy signals. Check whether the signal $x(t) = r(t+3)$ is energy or power signal. (3)

Q4. Check whether the system is static or not. Also check the causality of the system with output $y(t) = \cos(x(t))$. (4)