MECH 6325 HW 1 Ing. 6,00 = UI 0,253 15) X(1) = (05 (W6++01) (05 (W0++02)) $E[\chi(t)] = \int (\cos(\omega_0 t + \theta_1)) \cos(\omega_0 t + \theta_2) \frac{(\partial \theta_1)}{(\partial x + \theta_2)} \frac{(\partial \theta_1)}{(\partial x + \theta_2)} \frac{(\partial \theta_2)}{(\partial x + \theta_2)}$ = 25 (05/20++0)don (-27) (05(v++02)don) $Sin(w_t+o_t) = \overline{X} = 0$ $Sin(w_t+o_t) = \overline{X} = 0$ $R_{x}(t,t_{2}) = E[X(t_{1})X(t_{2})]$ = E (05(Wot;+0;) (05(Wot;+0)) (05(W.t2+0)) (05/W.t2+0) = E[(05(W.+,+0))(05(W.+a+0))+ =) cos(v.+,+0,) cos (w.+,+0)(2) do,+ Rx(+, t) = 2/1 cos (w. (+, -ta)) + ...