Name: Ahmed wall Hohamed 10:6071 Graff 2 Section: 2 Part (1) m(t) = 5:nc 2(10-3t) r(t) = m(t) G1(2710st) m(t) => H(w) = of m(t) e-jut It from table $\frac{1}{2\pi} \operatorname{Sinc}^{2}(\frac{Wt}{2}) \Rightarrow \Delta(\frac{\omega}{2W})$ $\frac{1}{2} = 10^{-3} \qquad (40) = \frac{2\pi}{2 \times 10^{-3}} \cdot \Delta \frac{\omega}{4 \times 10^{-3}}$ $\frac{2110^{-3}}{2\pi} \mathcal{H}(\omega) = O\left(\frac{\omega}{2W}\right) \left(R(\omega) = \mathcal{M}(\omega) f(\omega) 2\pi 10^{5} f\right)$ mch Car(wat)= 1 [H(w-wa)+H(w+wy)] Property of - Pourier transform in Case of Preguency Shift (Rw = 500 11 [1 (250 (W-211 x 10 5))+ 1 (250 (W+2x11 x 10 5))) R(w) is the result of the Frequency shift by M(w) mag = 1103 T mag = 1 (P W) 500 T pRove(R(D))