(a) Pole at Usef with  $R = R_1 || r_0$ = 1000 || 20= 19.6  $\Omega$ . C = 100  $\mu$ F.  $f_p = 1 = 81 H_{Z_1}$ 2TTRC Mag. T Noise at 100 Hz. \_\_\_\_\_≁f 81 Hz (b) Pole with  $R = \frac{R_1}{2} \iint \left( \frac{R_1}{2} + r_0 \right)$ = 519 J2 C = 100 MF  $f_{P} = \frac{1}{2\pi RC} = 3 H_{Z}.$ p Noise at 100 Hz. Much more attenuation. → f 3股