IST OM 1) Test power in the 2-lest Xy ... , Xn .. ind random X (y, 62) variables Ho: M=M0 a) compute test power of left-sided z-test; express cof of N(0,1) depending on Mo, M, 6, n and significance level a Ha: M < Mo Power = Ph (reject Ho) = Ph (22-20) $z = \frac{x - \mu_0}{6 / \nu_n} \qquad P(N(0, 1) \leq z_{\alpha}) = \alpha$ > power = Pm (x-m + m-1/10 <-2 x) - Pm (NO,1) <-2 a - 46/m) = P(NO,1) < - (2x + 100) = 0 (100 - 2x) 6) comment on the impact of pro, p, 6, n and a on the test power the power is increasing when po-p is increasing ... & is decreaning .. 6 is de creaming ... n is increaning