















The r = 1 case: two-sided The r = 1 case: one-sided • ML test reject  $H_0: a^T \beta \leq \eta_0$  if • ML test reject  $H_0: a^T \beta = \eta_0$  if T(y) > c $T(y) = rac{a^T \hat{eta}_{ ext{LS}} - \eta_0}{s_v / \sqrt{n}} < -c ext{ or } T(y) > c$ with size  $1 - F_{n-1}(c)$ . • Calculate t = T(y)with size  $2(1 - F_{n-1}(c))$ . • If  $t \leq 0$  then p-value is undefined (or you can take it to be 1) • Calculate t = T(y)• If t > 0 p-value  $= 1 - F_{n-1}(t) = P(T(Y) > t)$ . • p-value =  $2(1 - F_{n-1}(|t|)) = P(|T(Y)| > |t|).$ •  $H_0: a^T \beta \ge \eta_0$  will be a mirror image of this <ロト < 合ト < 言ト く言ト ミ のQで 16/17