

Probl. 1 Zweiseitige Alternative, t -Test:

$$X \in N(\mu, \sigma^2), H_0 = (\mu = \mu_0) \rightsquigarrow H_1 = (\mu \neq \mu_0), \zeta(\mu) = \bar{x} = \bar{x}_n$$

$$\text{Sei } \bar{x} = 406.78, \mu_0 = 400, s = 2.0, n = 100, \alpha = 0.01$$

H_0 verwerfen?

Probl. 2 Einseitige Alternative, t -Test:

$$X \in N(\mu, \sigma^2), H_0 = (\mu \geq \mu_0) \rightsquigarrow H_1 = (\mu < \mu_0), \zeta(\mu) = \bar{x} = \bar{x}_n$$

$$\text{Sei } \bar{x} = 406.78, \mu_0 = 400, s = 2.0, n = 100, \alpha = 0.01$$

H_0 verwerfen?