

36. A test is made of $H_0: \mu = 14$ versus $H_1: \mu \neq 14$. A sample of size $n = 48$ is drawn, and $\bar{x} = 12$. The population standard deviation is $\sigma = 6$.

a. Compute the value of the test statistic z .

b. Is H_0 rejected at the $\alpha = 0.05$ level?