

$$1) \mu_{RC} > \mu_P : H_A$$

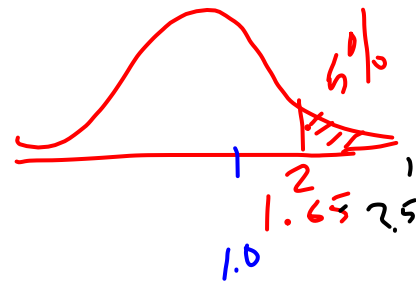
$$\mu_{RC} = \mu_P : H_0$$

$$2) \text{Normal}, \mu_N = 550, \sigma_N = 100$$

$$\rho < .05 (5\%)$$

$$\alpha = .05$$

$$3) Z_{\alpha/2} = 1.65$$



$$4) \text{GRE} = 650, Z_{650} = \frac{650 - 550}{100} = 1$$

$$1 < 1.65$$

$$5) Z_{650} < Z_{\alpha/2} \therefore \text{Inconclusive}$$

$$\frac{800 - 550}{100} = 2.5$$