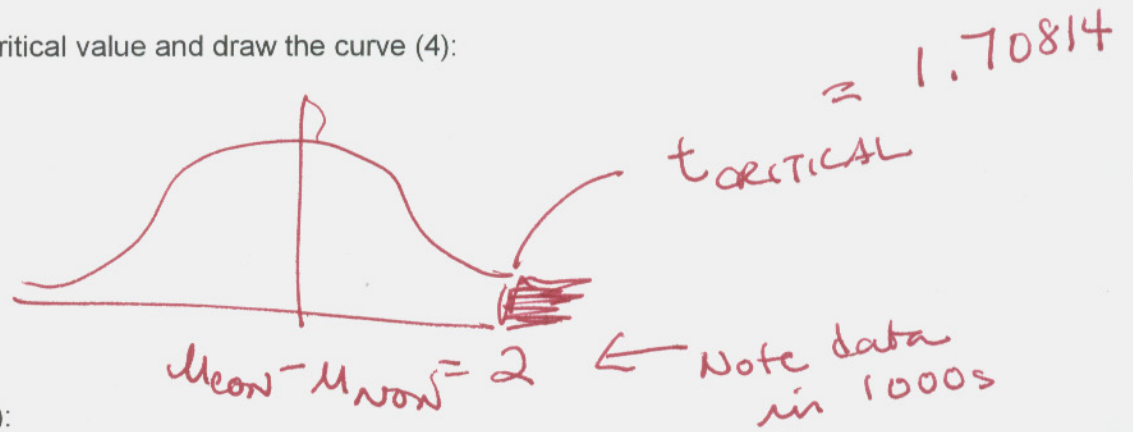


5

Determine the critical value and draw the curve (4):



Decision rule (2):

Reject H_0 if t_{TEST}

Test statistic (4):

$S_p^2 = 66.198$

$\bar{X}_{CON} = 66.29$ $S^2_{CON} = 48.64$

$\bar{X}_{NON} = 58.8$ $S^2_{NON} = 88.54$

$t_{TEST} = 1.743$

Make a decision and interpret the results (2):

Reject H_0 The difference in salaries is greater than \$2000.

Find the p-value and discuss whether or not you would change your conclusions. (2)

p-value = .047

Very close

may want to resample