

Practice Exam – Chapter 9 - BA 240

Name: _____

For full points show all calculations and take answers to three decimal places.

4. A restaurant chain is studying possible target markets. A sample of 100 couples in which the wife is employed full-time outside the house revealed that 70 went out for at least one dinner meal last week. A sample of 150 couples in which the wife does not work full-time outside the home revealed that 90 went out for at least one dinner meal last week. Should the restaurant chain target full-time employed wives over non-full-time employed wives? Assume a 5% significance level:

Null hypothesis (1): $H_0 : P_F = P_N = 0$ $P_{FULLTIME} = P_{NOT}$

Alternate hypothesis (1): $H_A : P_F - P_N > 0$ $P_{FULLTIME} > P_{NOT}$

Level of significance: $\alpha = .05$

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

