In Los Angeles there are three network television stations, each with it own evening news program from 6:00 to 6:30 PM. According to a report in this morning’s local newspaper, a random sample of 150 viewers last night revealed 53 watched the news on KNBC (channel 2), 64 watched KABC (channel 7), and 33 viewed KCBS (channel 2). At the 0.05 significance level, is there a difference in the proportion of viewers watching the three channels?

1. State the null and alternative hypothesis.

2. Identify the level of significance: Given at 0.05

3. Calculate the test statistic

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4. Formulate the decision rule.

1. Make a decision.