1) There is strong evidence that there is a difference in the true men GPA of male and female Stat 217 students.

2) Because gender was not randomly assigned, we can't say that the differences in sex cause the difference in average GPA. Because it was not a random sample of students, we can not infer our results beyond Stat 217 students in the previous semester.

3)

Formula for CI: Est $\pm$ t^* SE

$$0.25 \pm (2)(.04)$$

$$= (.07, .43)$$

4) We are 95% confident that the difference in true mean GPA between women and men in stat 217 is between .07 and .43 GPA points.

5) there are more outliers in the NFC and the mean is more strongly affected by outliers

6) for you to come up with