Jacob Lee is a frequent traveler between Los Angeles and San Francisco. For the past month, he wrote down the flight times on three different airlines. The results are:

|  |  |  |
| --- | --- | --- |
| **Goust** | **Jet Red** | **Cloudtran** |
| 51 | 50 | 52 |
| 51 | 53 | 55 |
| 52 | 52 | 60 |
| 42 | 62 | 64 |
| 51 | 53 | 61 |
| 57 | 49 | 49 |
| 47 | 50 | 49 |
| 47 | 49 |  |
| 50 | 58 |  |
| 60 | 54 |  |
| 54 | 51 |  |
| 49 | 49 |  |
| 48 | 49 |  |
| 48 | 50 |  |

1. Use the .05 significance level and the five-step hypothesis-testing process to check if there is a difference in the mean flight times among the three airlines.
2. Develop a 95% confidence interval for the difference in the means between Goust and Cloudtran