**Independent samples t-test problem**

1. Work this problem on your own for 20 points.

A psychologist hypothesizes that women will score, on average, higher than men on Allport’s Intrinsic Religious Orientation subscale. The subscale values can range from -16 to +16, with high values indicating an intrinsic religious orientation. The psychologist randomly samples 10 women and 10 men and administers the Religious Orientation scale. The data are reported below. Do they support the psychologist’s hypothesis? Use an alpha level of .05 and work through the steps in NHST to address the psychologist’s question.

Women: -2, -1, 1, 7, -7, -4, -10, 0, 0, -4

Men: -1, 5, 7, 2, 1, -1, 6, 8, 5, 4