A random sample of size 2 is obtained from Population A with outcomes of 3 and 7. A random sample of size 2 is obtained from Population B with outcomes of 4 and 40. The two samples are independent. Population A and Population B are thought to have similarly shaped distributions but with a possible shift in the mean. We will test the null hypothesis that the means are the same against a two sided alternative.

What is an appropriate test?

Compute the p-value.