Written Work 2: Critical Value

April 5 2021

Directions: Find the critical value for the test of significance in each of the given information.

1. One-tailed test, variance is known, $\alpha=0.01$, $n=40$.

   Left-tailed $=-2.326$
   Right-tailed $=2.326$

2. Two-tailed test, variance is known, $\alpha=0.01$, $n=50$.

   Two-tailed $=\pm2.58$

3. One-tailed test, variance is unknown, $\alpha=0.01$, $n=16$.

   Left-tailed $=-2.602$
   Right-tailed $=2.602$

4. Two-tailed test, variance is unknown, $\alpha=0.01$, $n=9$.

   Two-tailed $=\pm3.355$

5. One-tailed test, variance is known, $\alpha=0.01$, $n=38$.

   Left-tailed $=-2.326$
   Right-tailed $=2.326$

6. Two-tailed test, variance is unknown, $\alpha=0.01$, $n=12$.

   Two-tailed $=\pm3.106$

7. Left-tailed test, $\alpha=0.1$, $n=20$.

   Left-tailed $=-1.328$

8. Right-tailed test, $\alpha=0.05$, $n=23$.

   Right-tailed $=1.717$

9. Left-tailed test, $\alpha=0.01$, $n=20$.

   Left-tailed $=-2.539$

10. Right-tailed test, $\alpha=0.01$, $n=31$.

    Right-tailed $=2.326$