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Homework 5 SOLUTIONS
5.19(2)
        We have
                    51=4.90
         The test startistic is:
              test statistic = J
         Since n is large (51>30), we can use a 2-test & Table II:
          P-value = P(Z > 1.60)
20.0548
          or using a t-test and table IV (2f=50):
                   0.05 LP < 0.10
           So we fail to reject the null at &=5%.
          [NOTE: The true p-value is 0.0579]
```

5.21(a) Standard error = 52/m = 4.9°/vsi & 0.686°. Morgin OF error (df = 50) = 65% · Standard error ~ 1.676 · 0.686° ~ 1.15° Note: Q = 100% - 90% = 10%, so Q/2 = 5% 90° Confidence Interval = 1.1° + 1.15° = (-0.1°, 2.3°)