235. You are given:

(i) A random sample of losses from a Weibull distribution is:

$$595 \quad 700 \quad 789 \quad 799 \quad 1109$$

(ii) At the maximum likelihood estimates of θ and τ, $\sum \ln\left(f\left(x_i\right)\right) = -33.05$.

(iii) When $\tau = 2$, the maximum likelihood estimate of θ is 816.7.

(iv) You use the likelihood ratio test to test the hypothesis
$$H_0 : \tau = 2$$
$$H_1 : \tau \neq 2$$

Determine the result of the test.

(A) Do not reject H_0 at the 0.10 level of significance.

(B) Reject H_0 at the 0.10 level of significance, but not at the 0.05 level of significance.

(C) Reject H_0 at the 0.05 level of significance, but not at the 0.025 level of significance.

(D) Reject H_0 at the 0.025 level of significance, but not at the 0.01 level of significance.

(E) Reject H_0 at the 0.01 level of significance.