201. You test the hypothesis that a given set of data comes from a known distribution with distribution function $F(x)$. The following data were collected:

Interval	$F(x_i)$	Number of Observations
$x < 2$	0.035	5
$2 \le x < 5$	0.130	42
$5 \le x < 7$	0.630	137
$7 \le x < 8$	0.830	66
$8 \le x$	1.000	50
Total		300

where x_i is the upper endpoint of each interval.

You test the hypothesis using the chi-square goodness-of-fit test.

Determine the result of the test.

(A) The hypothesis is not rejected at the 0.10 significance level.

(B) The hypothesis is rejected at the 0.10 significance level, but is not rejected at the 0.05 significance level.

(C) The hypothesis is rejected at the 0.05 significance level, but is not rejected at the 0.025 significance level.

(D) The hypothesis is rejected at the 0.025 significance level, but is not rejected at the 0.01 significance level.

(E) The hypothesis is rejected at the 0.01 significance level.