In the secifications of the purchased software (Al based, I it is written that objects are detected in "G seconds on average". The avality control supervisor measures 8 durations (in seconds) as follows (the same values in the previous question) 611, 5.3, 5.9, 5,1, 6,4, 6,9, 6,2, 5,6

Perform the hyphothese test whether the mean detection duration is h seconds as it is claimed on the specifications? a) State the null hyphothesis to be tasted and the alterration

b) Perform the oppropriate test of hyphothesis for the object detaction durations usin a = 0.01,

e) find the approximate proble.

 $SE = \int \frac{1}{N} \sum_{i=1}^{\infty} (x_i - x_i)^2 \qquad Neon = X = 5.5$ $10.5635 \quad ogain \qquad No = \frac{1}{5} \sum_{i=1}^{\infty} \frac{1}{10.5635} \quad ogain \qquad No = \frac$

degree of freedom = 8-1= 7

$$b1 + = \frac{5.5 - 9}{0.5635} = 2.5291$$