1, DEFINE + AS FOLLOWS,

0,2- 11/1/19

- (a) VERTEY THAT FISH POF.
- (b) CALCULATE THE PROBABILITY THAT 4>4.
- (C) FIND Q1.
- 2. THE TIME A COMPUTER MOTHER BOARD LASTS IS EXPONENTALLY DIS DESDUTED WITH AN AVERTUE LIFE SPAN OF 10 YEARS.
 - (a) WHAT IS THE PROBABILITY THAT A MOTHER BOARD LASTS AT LEAST 7 YEARS?
- (b) WHAT IS THE PROBABILITY THAT A MOTHER BOAND LUSTS BETWEEN 9 AND 11 YEARS?
- 3. THE RETAREMENT AGE OF NFL PRAYORS IS NORMALLY DISTAGRACION WITH MEAN 33 AND VARIANCE 4 YEARS,
- (9) WHAT IS THE PROBABILITY THAT A PLAYER RETTREP BOWGEN 36 AND 39 Y GARS OLD?
- (b) 90% OF PLAYERS PETARE BEFORE WHAT AGE?
- 4. A DATA SET HAS MEAN 128 AND STANDARD DELITATION 22.
 - (a) FIND THE EXPECTED VALUE AND STANDARD DEVILOTION COMP FOR SAMPLES OF SIZE 36,
 - (b) WHAT IS THE PROBABILITY THAT THE MEAN OF SUCH A

 SAMPLE IS WITHIN 10 UNITS OF THE POPULATION MEAN?
 - (C) SUPPOSE YOU DON'T KNOW THE STANDARD DEVIATION, SO YOU
 TAKE A SAMPLE OF 36 AND CALCULATE FTS STANDARD
 DEVIATION TO BE 16. REDEAT (b) UNDER THIS CONDITION.

- 5. EXAM SCORES ARE NORMANY DISPATBUTED WITH T=5.6, A RAMPON SAMPLE OF 40 SCORES HAS MEAN 32, ESTIMATE THE POPULATION MEAN WITH CONFIDENCE (a) 80%, (b) 90%, (c) 98%.
- 6, 250 TEACHERS WORLASKED IF COMPUTERS ARE AN ESSENTAL TEACHING TOOL; 142 SAFED YES, THE BEST SAFED NO. CALCULATE A 99% OF COMPORNIE FUELVAL FOR THE PROPORTION OF TEACHERS WHO FEEL THAT COMPUSERS ARE ESSENTIAL,