

Let  $X$  denote the time to failure of a component. Assume

$$f(x) = \frac{1}{10} e^{-x/10}, \quad x \geq 0, \quad f(x) = 0, \quad x < 0.$$

(a) Approximate

$$P_1 = \text{mean}(X), \quad \text{variance}(X), \quad P_2 = \text{mean}(X^2), \quad \text{variance}(X^2), \quad \text{variance}(X).$$

(b) Sketch

- Graphs of the probability density function and the cumulative distribution function of the component's lifetime.
- The joint probability distribution of the component's lifetime and the component's failure rate. The component's failure rate is the probability that the component will fail within a given time interval, given that it has not failed up to that time.

(c) Approximate

the probability that the component will fail within a given time interval, given that it has not failed up to that time. The component's failure rate is the probability that the component will fail within a given time interval, given that it has not failed up to that time.

$$\text{mean}(X) = \frac{1}{10} \int_0^{\infty} x e^{-x/10} dx = 10$$

$$\text{variance}(X) = \frac{1}{10} \int_0^{\infty} x^2 e^{-x/10} dx - (\text{mean}(X))^2 = 100$$

Standard deviation of  $X$  is 10.

Standard deviation of  $X^2$  is 100. The probability that the component will fail within a given time interval, given that it has not failed up to that time, is 0.1.

(d) Sketch

- Graphs of the probability density function and the cumulative distribution function of the component's lifetime. The component's failure rate is the probability that the component will fail within a given time interval, given that it has not failed up to that time.
- The joint probability distribution of the component's lifetime and the component's failure rate. The component's failure rate is the probability that the component will fail within a given time interval, given that it has not failed up to that time.
- Standard deviation of  $X$  is 10. The probability that the component will fail within a given time interval, given that it has not failed up to that time, is 0.1.



- The regression equation is the best fit line for the data points. The regression equation is  $Y = -0.01X + 0.1$ .

10/10

# Ap Statistics Quiz B Chapter 23 Key

**A Loxley**



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**Federal Register** ,1964-04      Deering's California Codes California,1954      **Code of Federal Regulations** Department of Agriculture (DoA) Staff,2005-04 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government      *Code of Federal Regulations, Title 14, Aeronautics and Space, Pt. 1-59, Revised as of January 1 2012* Office of the Federal Register (U.S.) Staff,2012-05-11      *Library & Information Sciences* ,1992      NTIS Alert ,1992      **Medicare and Medicaid Guide** ,1969      **Journal of the House of Representatives of the United States** United States. Congress. House,2011 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House      *Government Reports Announcements & Index* ,1992      **Elections Code Annotated** California,1995

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