III. Five percent of the parts coming off an assembly line are defective.

    A. Using the binomial formula or your statistics software, calculate the probability of exactly 2 out of 5 parts being defective.

    B. Determine the distribution of defective parts using a table in the back of this book. Graph the distribution.

IV. A bank found that the average number of cars waiting during the noon hour at a drive-up window follows a Poisson distribution with a mean of 2 cars. Make a chart of this distribution using a Poisson distribution table. Graph the distribution and answer these questions concerning the probability of cars waiting at the drive-up window.

    A.

    B. No cars waiting   C. Two cars waiting   D. At least three cars waiting   E. Not as many as 3 cars waiting