

(a) Use the Poisson distribution, equation (5-10), with  $\lambda = 5$ .

$$P(X = 0) = .0067.$$

(b)  $Y \sim \text{Binomial}$  with  $n = 4$  and  $p = .0067$ . Use equation (5-3) with  $n = 4$  and  $p = .0067$ .

$$P(Y = 2) = .00027.$$