(a) 
$$\varphi(N_0 \text{ claim in } 2 \text{ days})$$

$$= \varphi(N_{(2)} = 0) = e^{-10}$$

$$+ \lambda = 10$$

6 V

$$= \left( \begin{array}{c} N(\frac{10}{24}) \leq 2 \end{array} \right)$$

$$= \left( \begin{array}{c} N(\frac{10}{24}) \leq 2 \end{array} \right)$$

(d) 
$$x = \begin{cases} 3 & .6 \\ 1 & .4 \end{cases}$$
  $E(x) = 5.06$ 

$$M_{X}(x)-1-(1+6)E(X)(X)=0$$

$$\left(e^{(16)} + e^{(18)}\right) - 1 - 11(5.06) = 0$$

N = 0,066

$$X = \begin{cases} 1 & .9(\frac{1}{6}) = .12 \\ 3 & .6(\frac{5}{6}) = .5 \\ 1 & .4(\frac{5}{6}) = .33 \end{cases} \qquad \Xi(x) = 4.93$$

$$\Xi(x^2) = 40.99$$

$$e^{(.12)} + e^{(.5)} + e^{(.33)} + e^{(.05)} - 1 - ((.1)(4.93))8 = 0$$

$$Y(100) \leq e^{-x(100)} = 1.1224$$

per year. 
$$\lambda = 6(365)$$
.

$$E(s) = E(N)E(x) = 6 (4.93):365 = 10096.7$$

$$V(s) = \lambda E(x^{2}) = 6 (40.09).365 = 89330.1$$

$$S = (1.1)E(s)$$

$$P(S > 0) = P(C > S)$$

$$= P(S < C)$$

$$= P(8 < 3.61) \approx 1.$$

(b) Costa

$$E(x) = \frac{1}{6}(E(x_1)) + \frac{1}{6}E(x_2) = 4.95$$

$$E(x^2) = \frac{1}{6}(x_1^2) + \frac{1}{6}E(x_2^2) = 40.95$$

$$V(x) = 40.95 - 4.95^2 = 16.45$$

$$\frac{5}{6}V(x_1) + \frac{1}{6}V(x_1) = 16.835$$

$$X \sim U(0,20) \qquad h = 10$$

$$\theta = 0.1$$
  $C = 1.1(10) = 11$ 

$$4(u) \leq e^{-100} = [-00248]$$

$$S(50) = \frac{93563}{10000}$$