$$p(y) = \frac{\lambda^3}{y!} \exp(-\lambda)$$

a)
$$Y \leq 4$$
 $(\lambda = 5)$.

$$P(Y=0) + P(Y=1) + P(Y=2) + P(Y=3)$$

$$P(Y \leq A) = P(Y = 0) + P(Y = A).$$

$$= e^{-\frac{5}{0!}} + \frac{5^{-1}}{1!} + \frac{5^{2}}{2!} + \frac{5^{3}}{3!} + \frac{5^{4}}{4!}$$

$$=e^{-s}\left[\frac{s}{o!}\right]+$$

b)
$$p(y>4) = 1 - p(y \le 4)$$

= 1 - 0.4405