$$\begin{array}{lll} \begin{array}{lll} \end{array}{lll} \end{array}{l} \end{array}{lll} \begin{array}{lll} \end{array}{lll} \hspace{lll} \end{array}{lll} \hspace{lll} \end{array}{lll} \hspace{lll} \hspace{$$

$$\Rightarrow P(1/2) = 1 - \frac{p(1-2^{30})}{1-2} = 1 - (1-2^{30}) = 2^{30}$$

$$\text{max} \quad 1 \le \log 0.1 / \log 0. \Rightarrow 3 \le 6$$

7.142. (c)
P(y) = e²2^y
y! $\frac{P(y)}{P(y-1)} = \frac{\pi}{y} \quad \text{for } y=1,2,3...$ CP) When 9< > P(y) > P(y-1) when $y \in \lambda$ P CY) € P [7 -1) Xy) > p (y-1) ply) is morning when b is the greatest noteger ≤ 2.