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Dur

R = 0,1,2...,00

T.P. T

a)
$$P\{x \leq 8\} \leq \frac{1}{4}$$

$$= e^{\frac{8}{2}} \sum_{k=0}^{8} P(X=k) = \sum_{k=0}^{8} e^{-1k} \times \frac{16^{k}}{|k|}$$

b)
$$\frac{2}{k=32}$$
 $P(X=k)=\frac{2}{k=032}$ $\frac{2}{k}$ $\frac{16}{k}$ $\frac{16}{$

$$P \left\{ |X - 16| \ge K \right\} \le T^2$$

$$J^{2} = \{(i) = \{(i)\}^{2}$$

$$=\frac{-1}{16^{2} \cdot k}$$

$$= (16^{2}) + 16 - (11)^{2} - (\frac{E(x)}{x})^{2}$$
tem
$$= (16^{2}) + (1 - (11)^{2} - (11)^{2} - (11)^{2} - (11)^{2}$$

Now X > 0 P { X 2 32 } < 1