Weibull distribution (321,
$$\theta > 0$$
)
$$f(x) = \begin{cases} (\frac{3}{6})(\frac{5}{6})^{5-1} e^{-\frac{1}{6}} \end{cases} \text{ if } x \ge 0$$

$$else$$

To show f is a probability density function see that

(D fx) 30 Hx because 6>0

B > 1 - (E) 13

and e (E) 15

(2) We nant to show Infas dx=1

let u= (a) B du = B (a) B-1 (b) dx

Conce orx shall

So e du = lim So e du = lim = e do
= lim 1-e = 1