$$(1) \quad T(O(X))$$

$$= T f(X;(\theta)) T(0)$$

$$= 1$$

$$\frac{1}{11} \theta^{\chi_{i}} (1-\theta)^{1-\chi_{i}} (1(\alpha+\beta)) \theta^{\chi_{i-1}} (1-\theta)^{1-\chi_{i-1}}$$

$$i=1$$

$$\mathcal{L} + \mathcal{L} \times_{i} - 1$$

$$\mathcal{L} = (1-0)$$

$$=) \left[\left[\frac{\partial \left[\times \right]}{\partial x} \right] = \frac{\omega + \left[\times \right]}{\omega + \left[\times \right]} \right]$$

b)
$$f(x) = \int_{0}^{1} f(x|0) \pi(\theta|d\theta)$$

$$= \int_{0}^{1} (x+\beta) \int_{0}^{1} \delta^{x} (1-\theta)^{1-x} \delta^{x-1} (1-\theta)^{x-1} d\theta$$

$$= \int_{0}^{1} (x+\theta) \int_{0}^{1} \delta^{x} (1-\theta)^{1-x} \delta^{x-1} (1-\theta)^{x-1} (1-\theta)^{x-1} (1-\theta)^{x-1}$$

$$= \int_{0}^{1} (x+\theta) \int_{0}^{1} (x+\alpha) \int$$

To check it anyone bothers to Now, what it ignstead & Baroulli.... ... it was BERNOULLi. And it was Bernie Sandus as a Probability distribution? 11 prof 15 10 nu 11 Mithins J Pz/