Since P=1, generation a seguire 17, 12, ..., 2m, .. of racidone number Conego suls to guesting a sequence of numbers P1, P2, ..., Pa, .... This observation makes it provide to generale any distribution pox of mumbers &  $P(x) = \int p(x') dx'$ dP = p(x) dxGenerale seguence 1, 22, .., 24,.  $P_{1} = P_{1} = P(x_{1}) \Rightarrow x_{1} = x(P_{1}) = P^{-1}(x_{1})$ 12 = P2 = P(x2) => x2 = x(P2) = P-(22) Heme, V Generale 2 2) Calculate P'(1) = x. This hinger on having an equicit Gample: P(x) = OCXCI 73 >0. p(x) = dx P(x) x = x(P) = P'(z) = z

$$2xanypb: = 1 - x - \alpha \qquad 1 < x < \infty$$

$$p(x) = 1 - x - \alpha \qquad 1 < x < \infty$$

$$\alpha > 0$$

$$p(x) = \alpha x^{-\alpha - 1} \qquad - 1/\alpha$$

$$x(p) = (1 - p)' = (1 - n)' = - 1/\alpha$$

$$1 - n - n > n$$

$$2xanypb: \qquad 1 - n - n > n$$

$$1 - n - n > n$$

$$x(p) = - \ln (1 - p) = - \ln (n - n)$$

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But, it is not always possible Wample: Gansian Hat Jollow a Saurian dishibutin. Frobability dunky, 10(x) = 1/2 e (x-m) 3/26 Chandand deviation 16. Eumelative distribution:  $P(x) = \int p(x') dx' = \int \frac{dx'}{\sqrt{240}} e^{-(x'-40)/26}$