1.
$$P(X=0) > 0.7$$
, $P(X=1) > 0.3$.

$$P = -\frac{0}{A}(0g\frac{P}{1-P}) + \frac{A}{2}$$

$$= -\frac{1}{5}(0g\frac{0.3}{0.7} + \frac{1}{2} = 4.0 \text{ s.s.}$$

$$= -\frac{1}{5}(0g\frac{0.3}{0.7} + \frac{1}{2} = 4.0 \text{ s.$$

:. n= Isanty yodfi Joo Ixchildf C-S Stoolxifiled Stool Yifiled らいなけられ = Jes | Gufil of with equality iff Xcf>= ktcf>, namely H(f) | sucf) = K 9(-f) e-josef16 => h(f) = k G(-f)e-j25f76 Sucf) $G(f) = \frac{1}{2\pi} \int_{0}^{\infty} e^{-dt} e^{-\int 2\pi ft} dt = -\frac{1}{d+2\pi f} e^{-\int 2\pi fT_{0}} e^{-\int 2\pi fT_{0}} e^{-\int 2\pi fT_{0}} = -\frac{1}{d+2\pi f} e^{-\int 2\pi fT_{0}} e^{-\int 2$

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