work shoot t

$$p(x=n) = \begin{cases} \frac{1}{8} & \frac{1}{3} = -1 \\ \frac{3}{4} & \frac{1}{3} = 0 \\ \frac{1}{8} & \frac{1}{3} = 1 \end{cases}$$

$$\Rightarrow V^2 = \frac{1}{4}, V = \frac{1}{2}$$

1.6) der Range (4) = 2-2,0,23 H= E[4] = 1. (-2) +0.1 + 0.1 = 0 C= nou [1] = (-5-h), = (1-h), = + (5-h), = 7 = 4.1 +4.1 = 4 PC14-41>24)= PC141 > 4) e people = 0 < Yu P(14-H1 > 24) = P(141 > 2.1/2) = P(141 >1) = P(4 =-2) + P(4=2) = 1 +1 = 1 7 4 This does not violate Tschebychov thaquality innoe, 97 holds for P(14-417 KTy) < 1/k2 which & four bus when we consider to, the standard devirais on of X, this inequality doesn't hold