2 pg () $E[X] = \sum_{x} \times \{(x)$ =(0.005)+(1.0.10)+(2.0.25)+(3.0.40)+(4.0.15)+(5.0.05) = 2,65 E(x) = sum (x) jennommit verdier 2.644 (1 min simulaing) p(X < 2) ~ 0.404 Disse en relative noeme ekralet verdi,

Oppg. 20)
$$\chi$$
 = (evelid hopp.)

$$\begin{cases}
\chi(x) = 1 - e \times p \left\{ -\frac{x^2}{4} \right\} \times > 0
\end{cases}$$

$$= P(X \text{ how withet inen } x \text{ oir}) = P(X \le x)$$

$$\begin{cases}
\chi(x) = f_{\chi}(x) & d = \frac{2}{4}x \cdot e^{\frac{x^2}{4}} \\
\chi(x) = f_{\chi}(x) & d = \frac{2}{4}x \cdot e^{\frac{x^2}{4}}
\end{cases}$$

$$\begin{cases}
\zeta(x) = f_{\chi}(x) & d = \frac{2}{4}x \cdot e^{\frac{x^2}{4}}
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\end{cases}$$

$$\frac{\mathcal{E}(X)}{\mathcal{E}(X)} = \int_{0}^{\infty} \frac{2}{x^{2}} \frac{2}{x^$$

$$24 n \left(-\frac{x^2}{d}\right) = 1 - 1$$

$$\frac{-x^2}{d} = \ln (1-U)$$

$$g(U) = x = \sqrt{-d \ln (1-U)}$$

$$2c) \times = F_Y^{-1}(V)$$

$$2c) \times = F_Y^{-1}(V)$$

$$F(x) = P(Y \leq x)$$

$$= P(x)$$

$$f_{\chi}(x,y)$$

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$$f_{\chi}(x) = \begin{cases} x = 0 & \frac{1}{8} + \frac{1}{6} + \frac{1}{18} + \frac{1}{8} = \frac{1}{3} \\ x = 1 & \frac{1}{3} = \frac{1}{3} \end{cases}$$

$$f_{\chi}(y|x) = f_{\chi}(x,y) / f_{\chi}(x)$$

$$f_{\chi}(x,y)$$

$$P(A_{i}) = \frac{1}{6} + \frac{5}{6} \left(\frac{1}{6} + \frac{5}{6}, \frac{1}{6} \right)$$

$$= \frac{1}{6} + \frac{5}{6} \left(\frac{1}{6} + \frac{5}{6}, \frac{1}{6} \right)$$

$$= \frac{1}{2} - \frac{2}{2} + \frac{2}{6} = \frac{2}{6} + \frac{2}{6} = \frac{2$$

$$E[X] = \frac{9(Y_{i}) = 5 \cdot Y_{i}}{5 \times 4_{Y_{i}}(x)} = \frac{5 \cdot 6(Y_{i})}{5 \cdot 6(Y_{i})}$$

$$= \frac{2 \cdot 11}{5 \times 1} = \frac{2 \cdot 11}{5 \times 1} = \frac{2 \cdot 11}{5 \times 1}$$

$$= \frac{2 \cdot 7 \cdot 5 \times 7}{5 \times 1} = \frac{2 \cdot 7 \cdot 7}{5 \times 1} = \frac{2 \cdot 7}{5 \times 1}$$

5.88-2.(1 = 1.44