$$5 = \{-2, -1, 1\}$$

$$b = E[x] = 1 \times \frac{1}{2} + 2 \times \frac{1}{4} + 3 \times \frac{1}{8} + 4 \times \frac{1}{8}$$

$$= \frac{1}{2} + \frac{1}{2} + \frac{3}{8} + \frac{1}{2} = \frac{15}{6}$$

$$E(x) = 1x \frac{1}{2} + 2x \frac{1}{4} + 3x \frac{1}{8} + 4x \frac{1}{8}$$

$$= \frac{1}{2} + 1 + 9 + 2 = \frac{37}{8}$$

$$C=\delta=\sqrt{\frac{71}{64}}=\sqrt{\frac{71}{8}}$$

$$O \setminus O$$

$$\begin{aligned} & \text{trob Sum}_{c} \neq 6 \\ &$$

P(1.11,
$$y = 0$$
) = $\frac{2}{3}$, $\frac{1}{3} = \frac{2}{5}$

Sat Independentes

Problems # 7

1600 pechas do (006its

0) Binomial

b) $E[x] = m \times p = 1600 \times 0,01 = 16$

c) $P(x = 20) = \binom{1600}{20!} 0,01^{20} (1-0,01)^{1600-20}$

d)

 $P(x = 20) = \frac{16^{20}}{20!} e^{-16}$

e) Now Sai

Problems # 8

 $P(v|F_v) = 0,8$
 $P(v|F_{v}) = 0,7$
 $P(F_v) = 0,7$
 $P(F_v) = 0,7$
 $P(F_v) = 0,2$

Summer / spring

 $P(v) = 0,7 \times 0.8 + 0,3 \times 0.1$
 $P(v) = 0,2 \times 0.8 + 0.8 \times 0.1$
 $P(v) = 0,2 \times 0.8 + 0.8 \times 0.1$
 $P(v) = 0,2 \times 0.8 + 0.8 \times 0.1$
 $P(v) = 0,2 \times 0.8 + 0.8 \times 0.1$
 $P(v) = 0,2 \times 0.8 + 0.8 \times 0.1$

a)

$$P(f_{v}(v)) = P(v|f_{v}) \times P(f_{v})$$

$$w/f = \frac{0,8 \times 0,7}{0,1 \times 0,8 + 0,3 \times 0,7} = \frac{5}{5} \frac{6}{9}$$

$$P(F_{V}|_{V}) = \frac{6.8 \times 0.2}{0.2 \times 0.8 + 0.8 \times 0.1}$$

$$= \frac{16}{24} = \frac{2}{3}$$