1. H: Universite mezunu Veya C partisine oy vermesi

$$=3P(H)=\frac{65+105-15}{250}=\boxed{31}$$

2 
$$P(A|x) = \frac{P(A|x)}{P(A|x)} = \frac{25}{95} = \frac{5}{19}$$

$$H = \sum_{k=0}^{\infty} \frac{k}{3^{2k}} = 1 = \sum_{k=0}^{\infty} \frac{k}{3^{2k}} + \frac{k}{3^{2k}} + \frac{k}{3^{2k}} = 1 = \sum_{k=0}^{\infty} \frac{40k}{27} = 1$$

$$= \sum_{k=0}^{\infty} \frac{27}{40}$$

$$\frac{5}{5} \int_{-\infty}^{\infty} f_{x}(x) \cdot dx + \int_{0}^{\infty} f_{x}(x) + \int_{0}^{\infty} f_{x}(x) = 1 \\
= \int_{0}^{\infty} f_{x}(x) \cdot dx + \int_{0}^{\infty} f_{x}(x) + \int_{0}^{\infty} f_{x}(x) = 1 \\
= \int_{0}^{\infty} k \int_{0}^{\infty} x(1-x) \cdot dx = k \left[ \frac{x^{2}}{2} \cdot \frac{x^{3}}{3} \right]_{0}^{\infty} = k \cdot \left[ \left( \frac{1}{2} \cdot \frac{1}{3} \right) - (0-0) \right] = 1$$

$$= \int_{0}^{\infty} k \int_{0}^{\infty} x(1-x) \cdot dx = k \left[ \frac{x^{2}}{2} \cdot \frac{x^{3}}{3} \right]_{0}^{\infty} = k \cdot \left[ \left( \frac{1}{2} \cdot \frac{1}{3} \right) - (0-0) \right] = 1$$

$$= \frac{1}{3} \left[ \frac{91^2}{2} - \frac{91^3}{3} \right]_{0.5}^{0.9} = 6 \left[ \left( \frac{0.81}{2} - \frac{0.729}{3} \right) - \left( \frac{0.25}{2} - \frac{0.125}{3} \right) \right]$$

$$=6[0,28-\frac{9604}{3}]=2(0,236)=[0,472]$$

$$E(x^2) = \begin{cases} 4 \\ x = 1 \end{cases} + (x^2 + (x^$$

$$= \sum E(x^2) = \frac{4+8+18+16}{9} = \frac{46}{9}$$

$$Var(x) = \frac{46}{9} - (2)^2 = \frac{10}{9}$$

$$2 \pm i \, Xi = (2,5 \times 1,5) + (3,75 \times 8) + (2,75 \times 6,5) + (3,25 \times 2) + (1,75 \times 3) + (2,25 \times 5) + (4 \times 1,5) + (0 \times 2,5) = 80,625$$

$$=> \overline{X} = \frac{80,625}{30} = 2,6875 \Rightarrow \overline{X} \approx 2,7$$

$$\frac{x}{p(x)} = \frac{3}{12} = \frac{6}{12} = \frac{9}{12} = \frac{12}{12}$$

=> 
$$E(x) = 3.2 + 6.5 + 9.4 + 12.1 = 7$$