1. a) 
$$P(A \cap B) = 0.02 \times 0.04 = 0.0008$$

b) 
$$\times$$
 0 1 2  
 $P(X=K)$   $P(X=0)$   $P(X=1)$   $P(X=2)$ 

c) 
$$E(X) = \sum_{i} x_{i} p_{i} = 0 \times 0,9408 + 1 \times 0,0584 + 1 \times 0,0008 = 0,06$$

d) 
$$V(X) = \sum_{i} x_{i}^{2} p_{i} - [E(X)]^{2} =$$

$$= 1^{2} \times 0.058 + 2^{2} \times 0.008 - 0.06^{2} = 0.058$$
Danc  $\sigma(X) = \sqrt{0.058} = 0.24$