

 $(G)(B) = P(A) \cdot P(B) \Rightarrow \frac{1}{6} = P(A) \cdot P(B) \Rightarrow P(B) = \frac{1}{6}$  $\frac{P(A \cap B)}{P(A)} = P(A) - P(B) - P(A \vee B) \Rightarrow \frac{1}{10} + \frac{2}{3} = P(A) + P(B) \Rightarrow P(B) = \frac{5}{6} - P(A)$ (A) = 5-P(A) = 1 = 5P(A) - 6 P(A)2 => 6P(A)2 - 5P(A) - 1=D (6P(A)-2)(6P(A)-1)=0 => P(A)=1/3 1/2 P(B)=1/3 1/2 P(ANB) = P(A)P(B) = 0.4x P(AUB) = 0.4-x-0.4x => 0.7 = 0.4 = 0.6x 0,3 = 0,6x => X=0,5 P(A)AVB) P(AN(AVB)) P(B) P(B)AVB) P(AVB) P(AVB) P(A) P(BN(AVB)) P(B) P(ANS) P(AVB)

$$\begin{array}{c}
(B) \bigcirc P(\overline{A} \cap \overline{B}) = 1 - P(A \vee B) = 1 - (P(A) + P(B) - P(A \cap B)) = 1 - P(A) - P(B) + P(A) P(B) \\
P(\overline{A} \cap \overline{B}) = P(\overline{A}) P(\overline{B}) = (1 - P(A)) (1 - P(B)) = 1 - P(B) - P(A) + P(A) P(B)
\end{array}$$

$$P(no \text{ error in a minute}) = 1 - 7.10^{-5} = 0.9993$$

$$P(no \text{ error in a minuteg}) = (0.9993)^{5.10^{3}} = 3.9657 \times 10^{-31}$$