2) 
$$P(\overline{D}/S) = \frac{P(\overline{D} \cap S)}{P(S)} = \frac{P(A \cap D \cap E \cap F)}{P(S)} = [0, 23] (1)$$

3)  $P(\overline{D}/S) = \frac{P(\overline{D} \cap S)}{P(\overline{S})} = \frac{P(\overline{D}) - P(\overline{D}/S) - P(\overline{S})}{P(\overline{S})} = [0, 46] (1)$ 

Exercice Nº3:

$$P(X/X) = 0,119 = P(X - \frac{300}{50}) \times \frac{300}{50} = 0,119$$

$$P(X/X) = 0,119 = P(X - \frac{300}{50}) \times \frac{300}{50} = 0,119$$

$$P(X/X) = 1 - P(X - \frac{300}{50}) = 1 - \frac{1}{2}(\frac{2300}{50}) = 0,119$$

$$P(X/X) = 1 - P(X - \frac{300}{50}) = 1 - \frac{1}{2}(\frac{2300}{50}) = 0,119$$

$$P(X/X) = 1 - 0,119 = 0,881 = 1 \times \frac{300}{50} = 1,18$$

$$= 1 \times \frac{359}{50} = 1 \times \frac{359}{50} = 1.18$$

Exerce Nº 11:

h=80730 et hp=2075 on peut considerer aussi (1,5)Conne une loi nomale de parametre [m=4p] (5=3,87)

## Correction d'examen probabilites et Mahstryuls.

## Exercice Nº1:

Daute part on:

whe part on.
$$A = A \cap A = A \cap (B \cup \overline{E}) = (A \cap B) \cup (A \cap \overline{E})$$

$$P(A) = P(A \cap B) + P(A \cap \overline{B}) = P(A \cap B) = P(A) - P(A \cap B) \emptyset$$

$$A = A \cap A = A \cap (B \cup E) = (A \cap B) = P(A \cap$$

et 
$$B = B \cap \Omega = B \cap (A \cup \overline{A}) = (B \cap A) \cup (B \cap \overline{A})$$

et 
$$B = B \cap \Omega = B \cap (A \cup A) = (B \cap A) \cup (B \cap \overline{A}) = P(B \cap \overline{A}) = P(B$$

$$2 - P(\overline{A}/B) = \frac{P(\overline{A} \cap B)}{P(B)} = \frac{P(B) - P(A \cap B)}{P(B)} = 1 - \frac{P(A \cap B)}{P(B)} = 0.74$$

## Exerce Nº 2:

1. La probabilité pour que le système fonctionne est.

$$= 0.5 \pm +0.5 \pm -0.5 \times \pm^2 = P(S)$$

La valeur de t pour pez que p=0,18 et la solution de l'équation -t2+2+-0,36=0 (1)

Cette equation admet deux solutions

$$t_1 = 1,8$$
 et  $t_2 = 0,2$ 

t, & [0,1] alors cetté solution rest refusée