Solutions TD no 3 exam On effective es tirages aléatoires, identiques et independant. A chaque tirage il n'y a opre deux issues: L'evenement t « L'entreprise lui répond" et " E « L'entreprise ne lui répond pas» Deplus PCE) = 0,2 La variable aléatoire X comptant le nombre de réponse suit la loi binomiale de paramètres n=25 et p=0,2 Ainsi: p(x=k) = Ck 0,2k (0,8)25-k  $p(x),5) = \frac{25}{L} \frac{K}{C} (0,2) (0,8) = 1 - p(x < 4) 25 - K = 1 - p(x < 4) 25 - K = 1 - p(x < 4) 25 - K = 0.58$ Exo2, Il ya 10 tirages indépendants, à déatoires, identiques A A chaque tirage il n'ya que deux issues: TetT I « Ali obtienne un personage detype terre » et Techli obtienne un personnage de type Airon Feux Deplus p(T) = 0,3 et p(T) = 1-p(T) = 0,7 La variable aléa Toire y suit donc la loi binomale ale paramètres n = 10 et p = 0,3.  $\frac{2}{3}/\frac{p(y=3)}{p(y>1)} = \frac{C^3}{10}(0,3)^3(0,7)^4 = 0,27$   $\frac{2}{3}/\frac{p(y=3)}{p(y>1)} = \frac{1}{10}(0,3)^3(0,7) = 0,27$  $(2 \times 03) \oplus (3 \times 03)$ (3) y ~ > B (100, 0,02) ~ > P (100 x 0,02) = P(2)  $P(Y \le 4) = 0,947 \le 0,95$   $P(Y \le 4) = 1 - P(Y \le 3) = 1 - (\bar{e}^2 \cdot \frac{2}{01} + \bar{e}^2 \cdot \frac{2}{11})$ + = 2 2 + = 2 23)

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