

EX1: V.a. X: Erreur de fabrication (TDL)

Ex2: V.a X: Épaimeur b'une crèpe

X ~> N(0,6;0.1) . chargeut le ver: . Si X & [7.97, 8.03] = Rejet Q Z = X-M; Z = X-0,6 O de l'our centage de bailles rejetées?? a)? $P(X \le 0.7) = P(Z \le \frac{0.7 - 0.6}{0.1})$ P (| Rejeta) = P (X & [7.97; 8.03]) P(Z<1) = F. (1) = 0.7413 = 1 - P (7.37 \ X \ 8.03)

Chargement De Von: Fx(1) = Fx(1,0+0,0) latable N(0,1) 7- X-4 = X-8 0,02 Z ~ M(0,1) P(2<2) = F(2) = 0,9772 P(hejetée)=1-P(7,97-8 <Z < 8,03-8) (Fx(2): Fx (2,0+0,0) 20 Toble (N(0,1) = 1- P(-1.5 {2 < 1.5) = 1 - [+(1,5) - +(-1,5)] = 1 - [F(1.5) - (1 - f(1.5))] P(ZZ1) = 1- F. (1) « Déjàcable = 1- 0,8413 = [0,1587] = 1-[F(1.5)-1+F(1.5)] $= \Lambda - 2F(\Lambda, 5) + \Lambda$ = 2-2F(1.5)=2(1-F(1.5)) P(Z<-1) = 1- Fx(1) (Fx (1.5) = F(1.5+0.0) (la Toble) =, [0,1587] Fx (1.5) = 0,9332 Y= lo.X Dore P(dejetée): 2 (1 - 0,9332) My = No Mx = No (0,6) = (6) = 0,1336 - [13,36%] 4~> N (6.1)

$$Z = X - M ; Z = X - 0.6$$

Changement Sleven:

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EX4: X: note l'examen. XNN (for do) . chu genet de von'able: X= X-M - X-70 No ZN (O(1) OP(X>80)=1-P(X580) = 1- P(Z < 80-70) = 1- P(25A) = 1- F(a)=1-0,8413 = [0,15 87] @P(X760) = N-P(X560) = 1-P(2<-60-70) = 1- P(25-1) = 1- (1- F(*1)) = 1 - 1 + F(1) = F(1)=0,8413 3 P(X<60)= P(2< 60-70) $= P(Z \langle -1) = 1 - F(1)$ = [011587] Exs: X: Poid, L'une boite X~> N'(205,15). 1) Z=49X Dac: 2~ N (491/x; 490x) 2~5 N ((49)(205);(49)(15)) 2~ N (10045; 735)

(2) $P(2 \le 9800)$?

Chargeret de Variobb: (Pour centréalis)

On plane: $C = \frac{2-11}{5} = \frac{2-10045}{935}$ $P(c \le \frac{9800-10045}{735}) = P(c \le \frac{-325}{735})$ $P(c \le -0.33) = 1 - P(0.33)$ = 1 - 0.693 = 0.3507

FIN TO4