almbul ju, to do Ermo (3 Edwy Land) John John. Fx 1sd= | 8x1H dt= 30, 81'a<-5 E(V)= Saf (N) de: Sta de: Van (x) = [(x2)-(2-(x))2-C Stiral U Lun (3) E(x2)= Six fx lalda= A (-15x (4) = 10 $P(-1 \le X \le 2 \mid X \ge 0) = \frac{P(-1 \le X \le 2 \le 2) n \le X \ge 0}{P(X \ge 0)} = \frac{P(0 \le X \le 2)}{P(X \ge 0)}$ = 2/20 = 2 P(47,4 | X < 10) = P(X+5 7,4 | X < 10) = P(X7,5 | X < 10) $=\frac{\mathbb{P}(X^2S)\mathbb{D}(X\leq 1d)}{\mathbb{P}(X\leq 1d)}=\frac{\mathbb{P}(Z\leq X\leq 1d)}{\mathbb{P}(X\leq 1d)}=\frac{\mathbb{P}(Z\leq X\leq 1d)}{\mathbb{P}(X\leq 1d)}$

15201000000 EN Emph Establis 03! X~ E(3) - Los flal= 93E , Sn. 1817,0 ن عمان الوقع الراملي والنباسي. EIN =) a fold & = [340 - 34/4. Var(x) = 5 DCZ & 101da = (E(x))2 Cestred, oluz @ P(X < 3) = 53 fx 101 da . il (X 74) = S, fraida. il (2 < x < u) = f fr (a) da. il (x >, 4 | x >, z) = 12 (x >, 4 n x >, z) = 12 (x >, 4) $D(X ? a = G[X ? a) = \frac{U((X ; a = G)n(X ; a))}{|U(X ; a)|} = \frac{U((X ; a = G)n(X ; a))}{|U(X ; a)|} = \frac{U((X ; a = G)n(X ; a))}{|U(X ; a)|}$ $|U(X ; a) = 1 - U(X ; a) = 1 - \int_{0}^{3} e^{-3} Ax = 1 - [-e^{-3}x]$ = 1- (- E 394) = E 39. et 18 (x7 a+ 61 - 6 3 (a+ 9). 12 (X7,9+9) = e-39xe-39 12 (X7,0) = e-39xe-39.

$$\begin{array}{c}
\text{Clost with the } \\
\text{X Not (On)} & \text{(I)} \\
\text{P(X > 0.56)} = \text{P(X > 0.56)} = \text{A-P(X < 0.56)} = \text$$

12 (X < 11) = 0.95 ene n'ans les! 4 D(X < N) = 0.95 CH (X-18 < N-12) - 0.95 (=) D(Z = n-12) = 0,95 is alon bistell = land de Jose Barri lapéni à 0,9505 le 22 0,95] zilos ans c je ! 3=0,65 sis B -) Fier bull del de n=13,5 200 n (que) 200 (2) 200 000 200 $\mathbb{P}(X_{2}, \mathbf{n}) = 0.95 \iff 1 - \mathbb{P}(X \leq \mathbf{n}) = 0.95 \iff 1$ (2) 12 (2 (2 1-12) = 0,05. Z = X-200 C= XN W(200, 15) aller alle The a zintole lude 1 D (200 - 20 € X € 200 + 20) = 0.9 D(200-2d≤X≤200+2d)=0.9€5 D(200-2d-200 € X-200 € 200-2d-15 C) P(-29 EZ = 20) = 0.9 (=) \$\\ \partial \(\frac{2a}{15} \right) - \Partial \(\frac{2a}{15} \right) = 0.9 C) \$= (2d) - (1 - \$= (20) = 0.9 C) 20= (20)-1=0,9 G 42 (29) = 0.95 نبعت من العرب في من عليه من عليه المحتمالات للعالون المال تعديدا 20,950 نم نسقطها مج على على وي دود 2 9 = 1,65

23 d (vis) gel, 21, loo 200 200

4)611/10/5 (moles) 10/10/15 1(1) = { ac1-1-2 da = 5 e-2 da = 1. 5(1/2) = 5 sc2-2 = ada = 5 = adac a= y2 => dx = 24 dy 1/1- 5 = 2 gdy = 2 fe ydy = 5 e ydy = 5 T. [(1+4)= \int sc(1+d)-1= & da = \int sce = & da = & [a]. 7(n) = (n-1)1 22 N= 4 /2160 P(1)= 5 x e = x disc = 5 200 N=2 più 1/2)= 5 sc e doc= 5 93 N=3 JoiG-0 [13] = f size ada = 2 (قروعة بعالم الله) P(4)= 1 A = 8 da = 6 20 1 1516 0 وعند دستناج ان T(n)=(n-n)! XN 1(2,2) 06 XN/(n) 665161=1510

لخوّ من في عمارتني اللشافسين المحسّاليسي للاس الال 5/n/=/n-)! 6'1 Le 1(218) 9 XN T(1,1) 9 XN8(1) dlas! (aid los co sistes: 0 السؤال 3: مثلثي.