	Showarm Singh classmate
	20911396 Data Data
	Roll no-65
	MATTAS AGSIGNMENT
1)	$\times \sim \cup (0,1)$
	$\frac{1}{2} \cos \left(\frac{1}{2} \cos \left(\frac{1}{2} \right) \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right) = \frac{1}{2} \cos \left(\frac{1}{2} \right) \cos \left(\frac{1}{2} \right$
	LO (w)
	Now o Y = c-x, g (y)
	Now 0 7 = c-2, g (y)
	$G(y) = P(Y \leq y)$ $= P(e^{-x} \leq y)$
	= P (e-x < y)
	$= P(-xi \leq \ln y)$ $= P(xi \leq -\ln y) = P(yi \leq \ln yy)$
	= P(xz - lny) = P(yz ln /y)
1	$=\int cx dx$
	Ind
	•
	$= \int_{0}^{\infty} 1 \cdot dx = 1 - \ln x = 1 + \ln y = -6$
	10 /9
	30 g(y) = d G(y) = d (1+lny) = 1 dy dy
	dy dy
	R_{y} of $C \in (0,1)$ $C = C^{-1} = 1$ $C = C^{-1} = 1$
	00 d= 6-x -> 6-0=1
	$g = e^{-1} = \frac{1}{e}$
	$60, g(y) = \frac{5}{4} \frac{1}{9} \frac{1}{9} = \frac{5}{9} \frac{1}{9}$ $6 \leq 9 \leq 1$ $6 \leq 9 \leq 1$
	LO els e

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 $\frac{\partial}{\partial x} \int (x,y) = \frac{2}{3} x + y \quad 0 \leq x, y \leq 1$

2 = x - y 4000

then x = 2 tw y=w

Calculating Jacobian

151	=	26/2c	200/200	-		_]	-
		00/02	34/200		<i>a</i> . O		1

= 1

Josnt pd g Z, w

K (2, w) = d(x, y) (J)

$$= 2+2\omega$$

 $0 \leq \infty \leq 1$

$$0 \leq 2 + \omega \leq 1$$

$$-\omega \leq 2 \leq |-\omega|$$

$$0 \leq \omega \leq 1$$

0 = 2 = 1-w

Smce 670/0 is inform for 2

classmate 220911596 Page

$$\int_{-2}^{20} O(2) = \int_{-2}^{2} K(2,\omega) d\omega$$

$$= \int_{0}^{2-2} (2+d\omega) d\omega$$

$$= \int_{0}^{2-2} (2+d\omega) d\omega$$

$$= \int_{0}^{2-2} (2+d\omega) d\omega$$

$$= 2 (1-2) + (1-2)^{2}$$

$$= 2-2^{2}+2^{2}+1-2^{2}$$

$$= 1-2$$

$$= (2+1) - (-2^2 + 2^2)$$

$$w(2) = \begin{cases} 1-2 & 0 \le 2 \le 1 \\ 1+2 & -1 \le 2 \le 0 \end{cases}$$

$$0 & \text{cloc}$$

Date Page

we know that

$$\overline{X} \sim N \left(\frac{\mu, \sigma^{\prime}}{\omega} \right)$$

let a ER be 3

where
$$Z = \overline{X} - \mu \wedge N(0,1)$$

$$2\phi(a)-1=0.95$$

$$P\left(-9 < \sqrt{n} \left(x - \mu \right) < a \right)$$

$$P\left(\overline{x}-a_{5}\right)=0.95$$

classmate 220911596 k=7 n= 2000 $\frac{Q_{K-1} = (x_1 - nP_1)^2}{nP_1} + \frac{(x_1 - nP_2)^2}{nP_1}$ 10000 + (X7-0P7)2 $= \frac{(5-2)^{2}}{2} + \frac{(45-46)^{2}}{4} + \frac{(390-372)^{2}}{4}$ $= \frac{(540-682)^{2}}{682} + \frac{(720-682)^{2}}{682} + \frac{682}{682}$ $= \frac{(382-372)^{2}}{372} + \frac{(18-46)^{2}}{46} = \frac{37.8073}{46}$ 272 C = X6 G 5% = 12.592 Q4-10-20 So the goade distribution doesn't dit the ideal curve