NAME > SHRETAS SRINI VASA PALUMAR 10 - 012951186 7 03/24/2021 MATH-141 EXAM - 2 CAKINN 5051 1. Don't him owner land :- 12 12 8 x = 14 - 2 ray 1 = 142 (-2,0) 0 - reviews stord protecuting 1 = 1 + 2 + = 1 (h) party 1-1=7 x2-2x +x-2 = ource) =7  $\chi(\chi-2)+(\chi-2)=0$ N=2 & N=-1 mour The way between they two curry?  $A = \int_{\alpha}^{\beta} \int_{\beta} f(x) - g(x) dx$ = (2 | x2 - x-2) dy 0-T. V

 $= \int_{x=-1}^{2} \int$  $= \frac{1}{2} \left[ \left( \frac{3}{\sqrt{3}} \right)_{3}^{-1} - \left( \frac{2}{\sqrt{2}} \right)_{3}^{-1} - 2 \left( \frac{2}{\sqrt{2}} \right)_{3}^{-1} \right]$  $(2-(-1)^2)-(2^2-(-1)^2)-2(2-(-1))$  $\left(\frac{8+1}{3}\right) - \left(\frac{4-1}{3}\right) - \left(-\frac{2}{3}\right)$ 1 -3 -3 -6 2 <del>-9</del> = 4.5 : Nerson (A) = 4.55+1 = 3 2. An. Wiven Charme : - x = 4 2 & 11 = A M=x 16+1= (-1)-(-1) 5x+01= (4/x)-(-21) (2) 0. T. 9

- third theresting got find of x= x2 x\_- x = 0 x(x-1)=0 X=0; X-1=0 in the problems of the product from the problems of the probl : 1 = ( IT ( (2x+1) 2 - (x+1) 3 ) by = tt ( [(x+25x+1)-(x2+2x+1)]dn = TT ( (x+25x+1/-x2-2x-x) da = TT ( (25x - x2 - x) dy  $\frac{\pi}{3/1} \left( \frac{2}{3/1} - \frac{\chi^3}{3} - \frac{\chi^3}{2} \right)$ 2 TT [4(1)-1-1-0] =nt - [ 1, 3 - 1 ] = 1111 - 1

= T. 1 2 II

V.T.0

probigness mes t sens sold distributed into the sold sound of mi 4. Am M = 2x Notable, W = (19-12) 62.4 (4172/9) de = 83.2 TT (10 (19x2- x3) dx = 208,000 9t. lb prierage palue = 1 (x) dx 5. m. =  $\frac{1-(-1)}{(-1)}$   $\frac{1-(-1)}{(-1)}$   $\frac{1-(-1)}{(-1)}$   $\frac{1-(-1)}{(-1)}$   $\frac{1-(-1)}{(-1)}$   $\frac{1-(-1)}{(-1)}$ = 7  $\frac{1}{2} \left( \frac{\chi^2}{\chi^2 + 3} \right)^2 dx$ O. 7- V (4)

(5)

Jet M = 123.13 du = 312 dy du = 22 Ang

 $\frac{1}{2} \left( \frac{dm/3}{m^2} \right)$ 

 $\frac{1}{2} - \frac{1}{6} \left( \frac{1}{M} \right)$ 

=7 (-1 )-1 de la maria della m

 $= \frac{1}{6} \left( \frac{1}{4} - \frac{1}{2} \right)$ 

=7 -1 X-1

= 7 24

C. Am Given Rusing :- 4 = 2112 ) 1 \( \text{X} \\ \text{Z} \\ \tex

:. Chy = 10/1 [ 4 2x2]

- 4 x3 + (-21)

= 12 - 1

0.7.9

= ( edy ) = ( )(3 - 1) } = (426-1) = 16x2+1-8x6 The langth of the known, L= (3) 1+ (dy)2dn => () 1+16×1,2+1-8×6 gr =7 (3 1 516x + 16x12 + 1-8x6 dx => ), 413 2 (4x +1), bux 27 (3 - 473 (476 +1) de =7 (3 x3 + 1 x-3 du ( x - 2 ), 0-7.9

7 81 -1 - X =7 1458 -1-9 = 1448 Errort length of the curve, L= 20. 11 1.m. y= 54-x2, -1 < x <1, about the x-anin, my 51, 6, 11 th 2 12.2 = Hi were exaltered M/ = \$\frac{1}{4} (4-1/2)\frac{1}{2} Z (4-x2)t-1 (-2x) Edt IN / - A because were professor sono - 54 / 24-K5 / 1+ No du 27 2tt ( ) 4-72 . J4-12 +22 AK 27 2TT ( 54 day => 4 TT ( dy 27 4TT (1+1) 27 8TT

(7)

0.7.0

& Am Grien Russes = 4=15 1 = X+6 -: nontreventing per prison! 15 = X+8 => x2-x-6 = B = 7 (1-3) (1+2) = 0- 7c2 -2,3 Array boundard, A = (3 (x+6-x2) DIK =  $\left(\frac{\chi^2}{2} + 6\chi - \chi^3\right)^3$  $=\frac{9+18-9-2+12-8}{2}$ = 125 x-rossistante of rentwood = 1 (216+2-12)du  $= \frac{1}{11} \left[ \frac{3x^{2} + x^{3} - x^{4}}{3} \right]^{3}$ 2 6 x 12F = 1

(8)

4- EBERGINATE OF CANTADIA = 7 (5+x) = (x2) = (x2) = 3. => 1 (36 + 122 + 12 = x4) dx  $= \frac{7}{2A} \left[ \frac{36x}{36x} + 6x^{2} + \frac{11^{3}}{3} - \frac{5}{5} \right] = \frac{7}{5}$ =7 1 x 6 x 500 = 4 2x175, == a. m: dy = 2 et + xet dy = ey [2+x] dy = (2+x) dx =7 (e-4 dy = ((2+x) dx => E-2 = 5x+ x2 + ( 1 = 0+0+( 1 = 0+0+( : (= -1  $\frac{1}{12} \cdot \frac{1}{12} = \frac{1}{12} \times \frac{1}{12} = \frac{1}{12} = \frac{1}{12}$ 

19)

0. T.9

OR  $e^{-\frac{1}{4}} = 1 - 2x - \frac{x^2}{2}$   $\frac{1}{e^{\frac{1}{4}}} = 1 - 2x - \frac{x^2}{2}$  $\frac{1}{1-2\chi-\chi^2} = e^{4y}$ 1-2x-x2 ligg (10)