PART-B

R. Vanun ECE B

Graven Cunva às

of Curva is

$$y = 4 \sin x$$
 $d = 4 \cos x$
 $d = 4 \cos x$

Radius of curvature $t = \frac{(1+y_1^2)^{3/2}}{\frac{y_2}{-4}^{3/2}}$

P=-1/1

madéus et convature can't be regative so, madéus et CUTIVATURE et curive, y=45ôn x ès 146

3 Gréven cumo és

Padius et cumulture
$$P = (272 + 71^2)^{3/2}$$

$$= (229 + 220)^{3/2}$$

$$= (229 + 220)^{3/2}$$

$$= (229 + 220)^{3/2}$$

$$= (229)^{3/2}$$

① Grèven; To find the value of Γ [-5/2] WET: $\Gamma(n+1) = n\Gamma(n) \to 0$ $N = -\frac{5}{2} \cdot 0.0$ $\Gamma(-\frac{5}{2} + 1) = -\frac{5}{2} \Gamma(-\frac{5}{2})$ $\Gamma(-\frac{3}{2}) = -\frac{5}{2} \Gamma(-\frac{5}{2})$ $\Gamma(-\frac{3}{2}) = \Gamma(-\frac{5}{2}) = \Gamma(-\frac{5}{2})$

$$\Gamma(-1/2+1) = -1/2\Gamma(-1/2)
-2(-1/2) = \Gamma(-1/2)
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+1/15 + -2(-5/2)
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$$B(5/2, 1/2) = \Gamma(5/2) \Gamma(1/2)$$

$$\Gamma(5/2 + 1/2)$$

$$= 3/2 \cdot 1/2 \text{ UT} \cdot \text{UT}$$

$$\Gamma(3)$$

$$= 3\pi/4$$

$$2+1$$

$$B(5/2, 1/2) = \frac{317}{8}$$

PART - C

1 Graven

xcosx+ysinx = ascerd x is the paramater + cosd

x +y tand = asecod x + y tand = a Ci+tand) at and - y tand + a - x = 0 This is in the term of Amount + 8m + c = 0 A = a; B = -y; c= a - x The encloses is B - 4 Ac = 0 y^2 - 4 a (a - x) = 0 (3) Griven;

S'x6(1-x)9

thence we know that

B(m,n)=5xm-1(1-x)n-dx

By comparising we god

m=4

D=10

B(7,10)=1/80080

B(7,10)=1/80080

3 Graven: S santo costo do

Hence we need to compare will;

STI/2

Signification costo do = 1/2 B[m+1/2. n+1/2]

now, m=n=6

STIZZONGO COSO do

Henco

ο S san 6 o cos 6 do = 1/2 B [7/2, 7/2]

1/2 B [7/2, 7/2] = 1/2 Γ (7/2) Γ (7/2)

Γ (7/2 + 7/2)

= 1/2 [7/2 · 1/2 Γ (1/2) Γ (1/2)

=1/2 · 223 TT + 6;

1/2 B[7/2, 7/2] = 5TT = 5TT