(-258nt , cont =1)

Paramerrie eq. of the rougent time is given by the expression, f(N/2) + t f'(N/2)

= (200 \$ 2 3 M \$ 2 3 \$) + + (-2 88 M \$, con \$ 3)

= (0,1, 1/2) ++ (-2,0,1)

= (-2t , 1, T/2 +t)

· 2(t) = (-2to10 tt 1/2)

(b) g(roy) = J4-22-42

 $d(u^3\lambda)$ is a sees writinger iff $1-u_5-\lambda_5 \ge 0$

Domain of d = & (x'D + 15, 5 ; 5+ 1, 5 1 5

3)
$$f(n \circ y) = n^3 - 3ny + 4y^2$$

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(9) $\overrightarrow{PB} = 9 - P = (12, 2) - (2, 0) = (10, 2)$

$$D_{1} = \begin{bmatrix} \frac{31}{24} & \frac{31}{24} \end{bmatrix} = \begin{bmatrix} e^{\frac{1}{4}} & e^{\frac{1}{4}} \end{bmatrix}$$

$$D_{1} = \begin{bmatrix} \frac{31}{24} & \frac{31}{24} \end{bmatrix} = \begin{bmatrix} e^{\frac{1}{4}} & e^{\frac{1}{4}} \end{bmatrix}$$

$$D_{2} = D_{1} (2,0) = [1 2]$$

$$D_{3} = D_{1} (2,0) = D_{1} (2,0) = D_{2} (2,0) = D_{3} (2,0)$$

$$D_{4} = D_{1} (2,0) = D_{4} (2,0) = D_{4} (2,0) = D_{4} (2,0)$$

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$$D_{5} = D_{5} = D_{5} (2,0)$$

$$D_{5$$

Note that, torresponding to any point (a,b) the man rose of decays in f occurs in the direction of (a,b).

Let \vec{u} be the unit vector corresponding to of (a,b). $\vec{q}(a,b) = (ab), aab)$ $\vec{q}(a,b) = (ab), aab) - (ab), aab$ $\vec{q}(a,b) = (ab), aab) - (ab), aab$ $\vec{q}(a,b) = (ab), aab) - (ab), aab$ $\vec{q}(a,b) = (ab), aab), aab$

Max sale of change = $D_u f(a_3b)$ = $O_u f(a_3b) \cdot u$ = $(e^b \circ ae^b) \cdot (\sqrt{a^2+1} \circ \sqrt{a^2+1})$ = $\frac{e^b}{\sqrt{a^2+1}} + \frac{a^2e^b}{\sqrt{a^2+1}}$ = $\frac{e^b}{\sqrt{a^2+1}} + \frac{a^2e^b}{\sqrt{a^2+1}}$ = $\frac{e^b}{\sqrt{a^2+1}} = \frac{e^b}{\sqrt{a^2+1}} \cdot \frac{a^2+1}{\sqrt{a^2+1}}$

Man rate of change of of at (a, b) occurs in the direction $\left(\frac{1}{\sqrt{a^2+1}}, \frac{a}{\sqrt{a^2+1}}\right)$ and has value $e^{b\sqrt{a^2+1}}$ unio

5) Distance of (but , sint , sin (+/2)) from the origin $= \int ((\omega xt - 0)^2 + (\sin t - 0)^2 + (\sin t + 2) - 0)^2$ $= \int (\omega xt + \sin^2 t + \sin^2 t + 2) = \int (1 + \sin^2 t + 2)$

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the assauce i.e. ] 1+ 842 (4/2)
   manimise 1+ 3n2 (+/2)
der f(+) = 1+ 9202 (+/2) . > f:12 -> 12
We man from the various paints of f.
  +'(+) = 2 cm (=) - cm (=) . 1
        = Isint
 4'(+0=0 => 1 sint=0 > snt=0.
  -> t=0, NT, n+2.
we shall apply no several desimaline rest
   1"(+) = 1 coot
 4"10>= $ 70 → at t=0 a local nimmum occors.
 (T M) cas I = (AN) 11/4
0 > (mn) }, fear ou (+) p as invivou of
     0 > (An) as C 0 > (An) as I ct
  LOSN X LO Y NER S.t. N & odd
  " + = (2K+1) 7 , KEB
 boguez donners drom une obrigen ora = (ros (5x+1)° 12 ° gn (5x+1) 12?
                                            IN (24+DE)
  $ ( (24+1) = 1+ 8/2 (24+1) )
                                                  NKEZ.
          = 1+ cin2 (KT + T) = 1+ sin2 (T) = 2
na ninum astano = 52 mins
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2 (cos((2K+1) T), Qu((2K+1) T), Qu T): KEZ }
 = { (co((2K+1)) ) sin ((2K+1)) ) : KE 2 3 %
 no res et bosner tonners from me origin
 6) Ker f(usys =) = x2 + sq + 42 + 42 + 52
    ad of a object of singles 1:= x3+45+53 = 1
   : we have to,
           Man f(noyot).
           8.F. x2+ x2+32=1
  KER Q(w 2 x2 x) = N2+ x2+ x3-1
 let me dagrangian be,
   (to you) = f(moyot) + A g(moyot)
      = x2+ xy+y2+y2+22+ 1(x2+y2+22-1)
 21 = 2x + y + 2 xx
OL = x+24+2+214
 DL = 4+22+ 212
3d= 22+42+52-1
By the sagrangian andsien, TL-O at the visited pr. P
ip. DL =0, DL =0, DL =0, DL =0
```

$$\frac{\partial L}{\partial n} = 0$$
 $\Rightarrow 2n + 4 + 2 dn = 0$
 $\Rightarrow 2n + 2 dn = -4$
 $\Rightarrow 2n (1 + d) = -4 - (3)$

$$\frac{\partial L}{\partial y} = 0 \Rightarrow x + 2y + 2 + 2\lambda y = 0$$

$$\frac{\partial L}{\partial y} = 0 \Rightarrow x + 2y + 2y + 2\lambda y = 0$$

$$\frac{\partial L}{\partial y} = 0 \Rightarrow x + 2y + 2y + 2\lambda y = 0$$

$$\frac{35}{31} = 0 \Rightarrow 3 + 5 + 5 + 5 + 5 = 0$$

$$\frac{35}{31} = 0 \Rightarrow 3 + 5 + 5 + 5 + 5 = 0$$

pour is & circ) se dos. 2m(1+1) = 27(1+1) 3 2(1+1) (x-2)=0

=) either n=2 on 1=-1

o= 4 1=-1 , In eq (1) we get, y=0

and in eq (ii) we get, -x-2=0 かかってき、

3L = 0 3 x2+y2+22-1=0

when 1 = -1, y = 0, n = -2 so or have

N2 +0 + N2 -1 =0 $\Rightarrow 2x^2 = 1 \Rightarrow x = \pm \frac{1}{\sqrt{6}}$

The willian points are
$$(\frac{1}{12}, 0, -\frac{1}{12}) \circ (\frac{1}{72}, 0, \frac{1}{52})$$

If $A + -1 \circ A$ from eq. (i) we have,

 $A = -\frac{1}{2(1+A)}$

From eq. (ii) we have,

 $A = -\frac{1}{2(1+A)}$

Superfruency know on eq. (i) we get,

 $A = -\frac{1}{2(1+A)} + \frac{1}{2(1+A)}$
 $A = -\frac{1}{1+A} + \frac{1}{2(1+A)}$
 $A = -\frac{1}{1+A} + \frac{1}{2(1+A)} = 0$
 $A = -\frac{1}{1+A} + \frac{1}{1+A} = 0$
 $A = -\frac{1}{1+A} + \frac$

$$\frac{1}{3} \frac{1}{3} \frac{1}$$

ं क्या मार्क प्रकाशिक क्षामा कार्य

 $\frac{1}{2}(\frac{1}{2},0,\frac{1}{2}) = (\frac{1}{2})^2 + (\frac{1}{2}) \cdot 0 + 0^2 + 0 \cdot (\frac{1}{2}) + (\frac{1}{2})^2$ $= \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$

.. The was notice of t is 17-17 where occurs at two possues (+, +; +) and (-+, +; -+) 1) your of large of barrows y = \$11 cost of runit of product & = of 3 mys of c brogning = du id > = -3x + 10xh - 3h 3 Total case of presencing c - 11xx + 3xy = 11× +34. we have, Kirinisa IIn+ 34 sit. -3x2+10xy-342-80 KON 16(4) A = 11 W + 3 A. = T (20 2) = f(2 2) + 4 (d(2) - 80)

= 11x+3y+ 4(-3x2+10my-332-80)

35 = 11 + 4 (- Px + 10h) DF = 3 + 4(10x-64) = (-3x2 + 10 ml - 3h3 - 80)

By Lagrangian under on we have 3T = 0, 3T = 0, 3T = D

DL = 0 3 11 - 61x + 101y = 0. >> 11 = 6Am - 10Ay ... (8)

$$\frac{\partial L}{\partial y} = 0 \implies 3+10\lambda \times -6\lambda y = 0$$

$$\frac{\partial L}{\partial x} = 0 \implies -3\pi^{2} + 10\pi y - 3y^{2} = 80 - (30)$$

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$$\frac{\partial L}{\partial x} = 0 \implies -3\pi^{2} + 10\pi y - 3y^{2} = 80$$

$$\frac{\partial L}{\partial x} = 0 \implies -3\pi^{2} +$$

when $y = \frac{3}{8}$, is a 3×50 point is a show the solution of becomes to the solution of t

 $\lambda = \frac{3}{2} + \frac{8}{3} = 4$

y= -2 +8 = 15

Hunis of product 4 is used and 1\frac{1}{2} usin of 3 to produce so unis of c.

Also cost of producing so unis of $C = 11 \times 4 + 3 \times (\frac{16}{3})$ = \$60.

4:05 - 2 12. 18. 8) god f(2.22) = god(1+ wh)

L(u+1 sh4m) - f(u,h) + at (ush) + qsf(ush) + -- bu

where Pn = I dn+1 f(m+8h = y+8k), 0 < 0 < 1.

of (0,0) the order 5 taken forming is,

and
$$e^{2} = \frac{1}{3}(0,0) \cdot v + \frac{1}{3}(0,0) \cdot v + \frac{1}{3}(0,0) \cdot v$$

and $e^{2} = \frac{1}{3}(0,0) \cdot v + \frac{1}{3}(0,0) \cdot v + \frac{1}{3}(0,0) \cdot v$

and $e^{2} = \frac{1}{3}(0,0) \cdot v + \frac{1}{3}(0,0) \cdot v + \frac{1}{3}(0,0) \cdot v$

$$\frac{1}{3}v = \frac{1}{3}v \left(\frac{1}{1+ny}\right) = \frac{1}{3}(\frac{1}{1+ny})^{2} \cdot \frac{1}{1+ny}^{2} \cdot \frac{1}{1+ny}^{2} \cdot \frac{1}{1+ny}^{2}$$

$$\frac{1}{3}v = \frac{3}{3}v \left(\frac{1}{1+ny}\right) = \frac{1}{3}(\frac{1}{1+ny})^{2} \cdot \frac{1}{1+ny}^{2} \cdot \frac{1}{1+$$

$$4(0,0) = 0$$

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(1.b) f(1,y) = ne-(2+45)/5
  \nabla f(n_0 y) = \begin{pmatrix} 1 \\ 4y \end{pmatrix} = \begin{bmatrix} 1 & e \\ -(n^2 + y^2)/2 & -(n^2 + y^2)/2 \\ -(n^2 + y^2)/2 & (-2n/2) \end{pmatrix}
    = \begin{bmatrix} -(x^2+y^2)/2 & -(x^2+y^2)/2 \\ -x^2 & e \\ -x^2 & e \end{bmatrix}
  To find the vircos point we peur $ =0
           - ry e = 0 - . (1°)
   From eq (n^2+y^2)/2 = 0
   => either n=0 or y=0 (e +0 + 2 ∈ R)
  from equi) we have,
   e^{-(n^2+y^2)/2}
  7) 1-x2=0 (e+0 +2 (R)
  => (1-n)(1+n)=0 => x= ± 1
since n +0 to sansty eq (ii) we must have y=0
(001) pure (0,1-) area during laining ant.
 H(n,y) = {nx fny ]
             tyn {44
```

$$= \begin{cases} -(n^{2}+y^{2})/2 & -(n^{2}+y^{2})/2 \\ e & (-2n) + e & (-n^{2})(-n) \end{cases}$$

$$= \begin{cases} -(n^{2}+y^{2})/2 & -(n^{2}+y^{2})/2 \\ -(n^{2}+y^{2})/2 & -(n^{2}+y^{2})/2 \end{cases}$$

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