



1) Persarum Phra netric

$$x = 0A = 0B-PP = \alpha\theta - \alpha \sin\theta$$
 $y = AP = BC-D(= Q - Q \cos\theta)$
 $f(\theta) = (Q + - \alpha \sin\theta), \alpha(1 - (\cos\theta))$
 $= (\alpha(A - \cos\theta), \alpha(1 - \cos\theta))$
 $= (10(\theta - \cos\theta), \alpha(1 - \cos\theta))$

6) Vektor kecepatan

c) becage :

d. Vekhr Engymy wit

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

* Carilah dan fenfukan pelmuh titik kotis	D(3, 1) = -12(1) = -4 <0 sadle
f(x,y) = 7x - 8y+2xy-x2+y3	
Janul:	D(5, -1) = -6(-1) 70 2 local
$3 \int_{x}^{x} = 1 + 2y - 2x$ $f \times y = 0$ $f \times y = -2$	$\int \left(\frac{5}{2}, -1\right) = -6(-1) \text{for all prake in mum}$ $\int \frac{5}{2} - 1 = -2 \text{for all prake in mum}$
13 fy = -8 + 2x + 3y ² fy = 64	
fx = 7 + 2y - 2x = 0	
$fy = -\theta + 2x + 3y^2 = 6$	
7+27-2x=0	
-2x = -7 -2y	
2× = 7 +27	
x = 7 + 2 y	
2	
$-1+2(7+25)+3y^2=0$	
-1 +2y +7y2 =0	
7y2 +2y -1	
' '	
(1y+1)(3y-1)	
$y = \frac{1}{3}$ $x = \frac{7}{2} + \frac{2}{3} = \frac{21+2}{6}$ $y = -1$ $= \frac{23}{6}$	
× = 7 - 2 = 5 2 2	
$\left(\begin{array}{cc} 2 & \frac{1}{2} \end{array}\right) \left(\begin{array}{cc} \frac{1}{2} & -1 \end{array}\right)$	
D(x19) = fxx(x19) fyy(x19) - [fxy(x19)]	
= -2 (6y) - (0)	
> - 12 8	