Huhammad Raihan Maulana 230621 6636

$$\frac{1}{4} = \frac{1}{4} = \frac{1}$$

cari c ny u
$$c^{2} = a^{2} b^{2}$$

$$= 6^{2} - 3^{2} = 36 - 9 = 27$$

$$c = \pm \sqrt{27} = \pm 3\sqrt{3}$$

Standard Cari titik poteng  

$$x=0$$
:  
 $0+\frac{y^2}{36}=1 \iff y=\pm 6$   
 $y=0$ :  
 $\frac{x^2}{y}+0=1 \iff x=\pm 3$ 

- direktrix = 
$$9 = 6 + 373$$
  
dan  $9 = -6 - 373$ 

$$\frac{3,0}{f} = (10, \pm 3, \pm 3)$$

$$4x^2 + y^2 = 36$$

 $\ell=2$ ;  $y^2=-8\times$  ditanger different. pers. hiperbola dyn pusa (0,0), f, vertex, diretarial effects  $y^2=-8\times$  dibenea the  $y^2=-9\times$  1 assimilate  $y=\pm\frac{b}{2}\times$ 

- direletrix 
$$= 6 + 373$$
  
dan  $y = -6 - 373$ 

$$\ell=2$$
;  $y^2=-8\times$  ditanger disentents, pers. hiperbola dan may  $(0,0)$ , f, vertex, direttrial effects  $y^2=-8\times$  dibawa ke  $y^2=4p\times$  a similar  $y=\pm\frac{b}{a}\times$   $y^2=4(-2)\times$  =  $\pm\frac{13}{2}\times$  =  $\pm\frac{13}{2}\times$ 

asim tot : 
$$y = \pm \frac{b}{a} x$$
  
=  $\pm \frac{\sqrt{3}}{1} x = \pm \sqrt{3} x$ 

turena directrix garis x=C

that make hyperbody horizontal persamaan:  $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$  (=)  $\frac{x^2}{1^2} - \frac{y^2}{3} = 1$ 

titik principle di (principle (
$$\pm a_{i0}$$
) = ( $\pm 1.0$ )

 $y=13x$ 

(-2)2 = (-1)2 + 62

b=19-1=183

e = L

7 Direct e=2

$$y = -13 \times$$

$$y = -13 \times$$

$$y = -13 \times$$

$$f'$$

$$f'$$

$$f'$$

Muhammad Raihan Maulana 2306216636

3 b) 
$$4x^{2} - 16x + 2y^{2} + 16y + 40 = 0$$
  
 $4(x^{2} - 4x) + 2(y^{2} + 8y) = -40$   
 $4(x^{2} - 4x + 4) + 2(y^{2} + 8y + 16) = -40 + 16 + 32$   
 $4(x - 2)^{2} + 2(y + 4)^{2} = -18$   
 $2(x - 2)^{2} + (y + 4)^{2} = -9$   
Araggap  $u = x - 2$ ;  $v = y + 9$   
 $2u^{2} + v^{2} = 19$  (:4)  
 $\frac{u^{2}}{2} + \frac{v^{2}}{9} = 1$   
 $\frac{v^{2}}{2} + \frac{v^{2}}{2} = 1$   $\Rightarrow \frac{x^{2}}{a^{2}} + \frac{y^{2}}{b^{2}} = 1$   
 $2x^{2} + 2x^{2} = 1$   $\Rightarrow 2x^{2} + 3x^{2} = 1$   
 $2x^{2} + 3x^{2} = 1$ 

genyebut a aba di y (atau u) directix maka ellipse horizontal; dancaticx y= ortho

$$(2^2 + (a^2 - b^2) = 0) = \sqrt{4 - 2} = \sqrt{2}$$

$$e = \frac{c}{a} = \frac{\sqrt{2}}{\sqrt{2}} = 1$$

tipot: 242+ 192 = 4 12=4 C=7 U= ±2 Saat 4=0: y+4 = ±2 y= ±2-9 9 = -6 Vy = -2 Saut 0=0: 242=9 X=2+72 Vx=2-15 u = ± √2 X-2 = ± √2

Sun 7 bordusarkan ini Tx = 2; Ty = -4

directrix: 
$$y'=4 - y_1 - (y_2 - y_1)$$

$$V y'= y_2 + c$$

$$y = -6 - \sqrt{2} \quad V \quad y = -2 + \sqrt{2}$$

$$f = (0, Tx, Ty \pm c)$$

$$= (2, -4 \pm \sqrt{2})$$

$$f(2, -4 - \sqrt{2})$$

$$V f(2, -4 + \sqrt{2})$$

$$V f(2$$

(Tx, y) V (Tx, y) > p= (2,-9) (2,-6) V(2,-2)

(=) 
$$(u^{2} + \frac{1}{2}u^{3})^{3} + \frac{1}{2}u^{2} + \frac$$