

Grafik Fungsi Vektor $\left(\frac{x}{a}\right)^2 + \left(\frac{y}{b}\right)^2 = 1 \rightarrow x^2 + y^2 = a^2$ lingk
 $x^2 + y^2 = a$ parabola
 $\left(\frac{x}{a}\right)^2 + \left(\frac{y}{b}\right)^2 = 1$ ellips

$$F(t) = (t-4)\hat{i} + \sqrt{t}\hat{j}, \quad 0 \leq t \leq 4$$

persamaan parameter:

$$x = t-4 \rightarrow t = x+4$$

$$y = \sqrt{t} \rightarrow y = \sqrt{x+4} \Rightarrow y^2 = x+4 \text{ (parabola)}$$

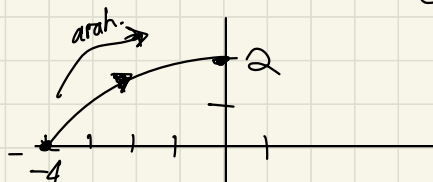
Arahnya:

$$(x, y)$$

$$f(0) = -4\hat{i} = (-4, 0)$$

$$f(2) = -2\hat{i} + \sqrt{2}\hat{j} = (-2, \sqrt{2})$$

$$f(4) = 2\hat{j} = (0, 2)$$



$$F(t) = 3\cos t\hat{i} + \hat{j} + 2\sin t\hat{j}, \quad 0 \leq t \leq 2\pi$$

pers. par.

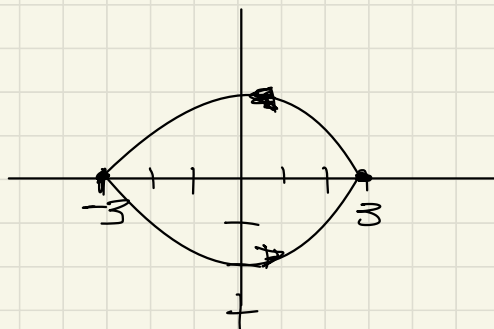
$$\begin{aligned} x &= 3\cos t & \frac{x}{3} &= \cos t & \left(\frac{x}{3}\right)^2 &= \cos^2 t \\ y &= 2\sin t & \frac{y}{2} &= \sin t & \left(\frac{y}{2}\right)^2 &= \sin^2 t \end{aligned} \quad \left(\frac{x}{3}\right)^2 + \left(\frac{y}{2}\right)^2 = \cos^2 t + \sin^2 t = 1 = \text{elips}$$

Arahnya:

$$f(0) = 3\hat{i} = (3, 0)$$

$$f(\pi) = -3\hat{i} = (-3, 0)$$

$$f(2\pi) = 3\hat{i} = (3, 0)$$



lingkaran
 $\pi = 180^\circ$

$$\begin{aligned} \cos 0 &= 1 \\ \sin 0 &= 0 \end{aligned}$$

$$\begin{aligned} \cos 180^\circ &= -1 \\ \sin 180^\circ &= 0 \end{aligned}$$

$$\begin{aligned} \cos 2\pi &= 1 \\ \sin 2\pi &= 0 \end{aligned}$$