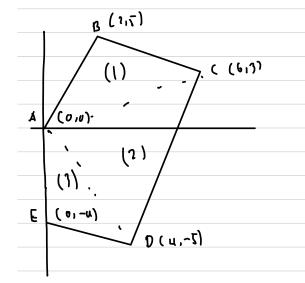
1)	Ival R			
	A (6.4)	8 (2,5)	(6,3).	0/1



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2) Perraman bidany thk A(2,0,2), B(0,4,4) dan c(1,1,0)

$$\overrightarrow{AG} = (-2, 4, 2)$$

 $\overrightarrow{AC} = (-1, 1, -2)$

$$\vec{N} = \vec{A} \cdot \vec{B} \times \vec{A} \cdot \vec{C}$$

$$= \begin{vmatrix} i & j & k \\ -2 & 4 & 2 \end{vmatrix}$$

$$(-8-2)_{i} - (u+2)_{\bar{j}} + (-2+u)_{k}$$

Pers bidany =
$$\overline{N} \cdot \overline{AB} = 0$$

Persaman umum

Pers bidong:
$$-10 \times -6 y + 2 = -16$$

 $10 \times +6 y - 2 = 16$

Mater 3-4

3) Critical point
$$f(x,y) = -x^2 + y^2$$

 $fx = -2x = 0$ $fy = 2y = 0$
 $fx = 0$ $fy = 2$

$$\begin{array}{rcl}
D(x,y) &=& fx_3 \cdot fy_3 - (fx_3)^2 \\
D(v,0) &=& -2 \cdot 2 - (o^2) \\
&=& -4 \cdot 4 \cdot 0 \quad \text{saddle pait}
\end{array}$$

Tithe (010) adolah saddle point.

(4) Kurvatur dan funyn vektur
$$r(t) = 5(t)i + 3 sm(t)j + 3 cos(t) \bar{k}$$

$$\Gamma(\ell) = \frac{5i + 3\cos(t)j + 3\sin(t)k}{25 + 9\cos^2 t + 9\sin^2 t}$$

$$= \frac{3u}{3}$$

$$K = \frac{\|T'\|}{\|\overline{v}(t)\|} = \frac{3}{\sqrt{3u}} = \frac{3}{3u}$$

$$\nabla \Theta = \left(\frac{\delta \theta}{\delta x}, \frac{\delta \theta}{\delta y}, \frac{\delta \theta}{\delta z}\right)$$

=
$$(y^2 + 1^2 + 2) \times (2 \times y) \times (6.2.2)$$

$$|\nabla \theta| = \sqrt{500^2 + 240^2 + 2592^2}$$

= 2656,2

$$f(x,y) = 6x + 4y \quad \text{pada} \quad \lim_{x \to 0} x + y^2$$

$$\frac{3}{x} = \lambda$$
 $\frac{2}{3} = \lambda$

$$\frac{2}{7} = \lambda$$

$$\frac{3}{\lambda} = X$$

$$g\left(\frac{3}{\lambda},\frac{1}{\lambda}\right) = \frac{9}{\lambda^2} + \frac{1}{\lambda^2} = 0$$

$$\frac{13}{\lambda^2} = 0$$

7)
$$\int (x_1y) = \frac{1}{\sqrt{x^2 + y^2}} = \frac{1}{r^2}$$

$$\frac{1}{2} \times = \iint_{\mathbb{R}^{2}} y^{2} d(x, y) dr d\theta$$

$$= \iint_{\mathbb{R}^{2}} r^{2} \sin^{2}\theta \left(r \right)^{2} d\theta$$

$$< \int_{\mathbb{R}^{2}} \sin^{2}\theta \left(r \right)^{2} d\theta$$

$$= \frac{1}{2} \left(\left(\frac{1}{2} - 1 \right) - \left(-\frac{11}{2} + 1 \right) \right)$$

$$= \frac{1}{2} \left(\frac{1}{1} - 2 \right) = \frac{11}{2} - 2$$