Penteman 5: Power Series

- \rightarrow Power serves $4 \cdot q_n \times^n \rightarrow q_0 + q_1 \times + q_2 \times^2 \dots$
- yang membuat bonvergen

 Gerapa aja x

 yang membuat bonvergen

 Gerapa aja x

 yang membuat bonvergen
- Convergence set biso as a single point

 dungan integral alternating harmonic senies dll

 biso who can nilaingo

 (s todo f dan j konvergen , nilainga boleh

 t, -, *,/
- → Denet Maclourh dan taylor

 → yong turunan ke n schalu ada (sinx, cosx, ex)

 dunt Maclourin Fro denet taylonga destata=0

c > eccentricity

Pertensian 6: deret Maclaumin dan taylon

taylon Serkes

$$f(x) = \sum_{n=0}^{\infty} f^{(n)}(a) (x-a)^n$$
, a \(\text{RUC}\)

- Denet Binomial

$$(1+\mathbb{K})^{p} = 1 + {p \choose 1} \times + {p \choose 2} \chi^{2} + {p \choose 3} \chi^{3} \dots$$

Pentemuan 7: Irisan terucut

Tris tencut

4 tidak horozontal -> elips

4 semining dengan terret - parabola

La vertical -> hiperbola

para bola

e=1 -> parabola

ect - elips

e>1 -> hiperbola

-> Parabola

y2: 40x where (p,0) = F

- elips

$$\frac{\chi^2}{a^2} + \frac{y^2}{b^2} = 1$$
, $c^2 = a^2 - b^2$, $e = \frac{c}{a}$

- hperbob

$$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$$
, $C^2 = \alpha^2 + b^2$, as instact = $\frac{\pm}{a}$

pontensan 8: Insan Kencut 2

→ yang butan throat terrect

→ $y^2 = C$ → C > 0 2 gards paranel

→ $y^2 = 0$ → 1 gards

 \Rightarrow yz = C \Rightarrow C < 0 zet bosons

-> x2+ y2 =c -> lingtoran

 $\frac{}{}\rightarrow \frac{X^2}{Q^2} + \frac{Y^3}{D^2} = 0 \rightarrow point$

 $\frac{x^2}{4^2} + \frac{y^2}{b^2} = c \rightarrow c < 0 \quad \text{set tosong}$

 $\frac{3}{a^2} - \frac{y^2}{b^2} = 0 \Rightarrow 2 \text{ gards neytlang}$

General Equation for Conic Sections

 $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$

6 elips A + C, AC>0, B=0

Garcie BED, AEC

5 Wpenbola, B=0, <<0 atau A<0

is panabola B=0, A=Oatal =0

REO antinya Con's sectioning belun dinotari

-s agon P=0

cani θ seningga $\frac{A-c}{8} = \cot 2\theta$

X = X, cos 0 - y, smo

y = x' sin 6 + y' cos 0

subtitues the general equation at an mendapat

pensangan ban selvingga B=0

3

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