EXAMPLE 3:
$$Y^2 = X^{11} - \frac{1}{4}^3 = f(x)$$

$$\Delta_{min} = 2\binom{11}{2} \frac{3}{11} = 30$$

$$div(f) = H - 11/00$$

· H is not originar.
· Continued fraction expansion of
$$\frac{3}{11} = [3, 1, 2]$$

v1t)=10 V(f)-30

v(t)=7 VIFL=21

VIt)=18

VLF)=54

V(f)=33

> v(t)=31

V(E)=15

V ()= +4

VH)=4

V(f)=11

v(t)=1

v(f)=0

End of

Step 3

$$x^{43} - 4^3 = x^9 \left(x^2 - \left(\frac{t}{x^3} \right)^3 \right)$$

$$= \chi^9 \left(\frac{t}{\chi^3}\right)^2 \left(\frac{(\chi^4)^2 - t}{\chi^3}\right)$$

$$= \frac{1}{x^3} \left(\frac{1}{x^3} \right)^2 \left(\frac{x^4}{t} \right) - \frac{t^2}{x^3}$$

$$= \frac{x^9}{(t^2 + 1)^2} \left(\frac{x^4}{t^2} \right) \left(\frac{x^4}{t} - \frac{t^2}{x^7} \right)$$

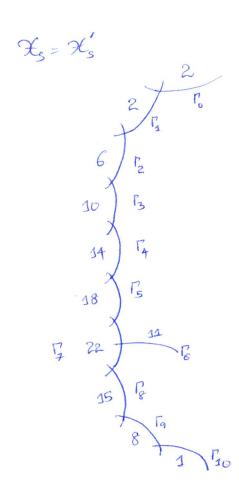
$$= \frac{x^9}{(t^2 + 1)^2} \left(\frac{x^4}{t^2} \right) \left(\frac{x^4}{t} - \frac{t^2}{x^7} \right)$$

$$= \frac{x^9}{(t^2 + 1)^2} \left(\frac{x^4}{t^2} \right) \left(\frac{x^4}{t^2} - \frac{t^2}{x^7} \right)$$

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$$y_s = y_s'$$

(PS)



$$\sum_{i < j} \Gamma_{i} \cdot \Gamma_{j} = 10$$

$$\alpha_{i} = (1 - m_{i}) \times (\Gamma_{i}) + \sum_{j \neq i} (m_{F_{i}} - 1) \Gamma_{i} \cdot \Gamma_{j}$$

$$\alpha_{0} = -2 + 1 = -1$$

$$\alpha_{1} = -2 + 1 + 5 = 4$$

$$\alpha_{2} = \alpha_{3} = \alpha_{4} = \alpha_{5} = \alpha_{8} = \alpha_{9} = 0$$

$$\alpha_{2} = \alpha_{3} = \alpha_{4} = \alpha_{5} = \alpha_{8} = \alpha_{9} = 0$$

$$\alpha_{3} = -20 + 23 = 1$$

$$\alpha_{3} = -42 + 17 + 10 + 14 = -1$$

$$\alpha_{10} = 7$$

$$\leq \alpha_{i}^{2} = 10$$

-Art (71/s) = 20 < Dmin = 30.