Grama no Xopher

3.5. f(x) = (x-1)2 + f(1); 1 - (xy) = f = (x-1)9Te. f= oo + ogx + - - + on xn EFEXJ, LEF 2) 39=botb, x + - - + bn-1 x 1-1 = F[x] ~ r = F: S= (x-1)9++ 1000gero bo = ax, + b, d , L = 00 + 60 g 61 = 2+627 bn. 2 = 0 h-1 + 2 bn-1

$$\frac{2-6}{2-6} (x-1) 2^{4-1} (x-1) (b_0 + b_1 x + - + b_{m-1} x^{m-1}) + V =$$

$$= b_{m-1} x^n + (b_{m-2} - b_{m-1}) x^{m-1} + - - + (b_0 - b_1 b_1) x + (r - b_0 b_1)$$

$$= f = a_m x^n + a_{m-1} x^{m-1} + - - + a_m x + a_0$$

Bos. Obwarden o Fe wow , no poson v 30 Monstoner 176 Gen $\frac{25.}{4} \frac{|a_n|}{|b_{n-1}|} \frac{|a_n|}{|b_{n-2}|} \frac{|a_n|}{|a_n|} \frac{|a_n|}{|$

Aprilies ver la from some of consoner on to sponsonella

Ind. F- Tone

Tragen on gen. c zoemo n ocirsta Hf, g E F [x], g +0 => -J! 2, r E F [x]: | f=gq+r deg r < deg g

Delo (F) leg f = n, legg = m Ung. 00 /2 (e/- 0,1,2, -7) h--- f=0-> f=g.0+f, stage = stage f=0 coly Konen e Copus de dogt en Tige gove. de Sugt = 15 J=05x4 enx4 + -- + 00 j g=6xx x + -- + 60 8n +0

6m +0 $f = g_{-} \partial + f_{-} r \frac{z_{0}}{r}$ $f_{1} = f - \frac{\alpha_{n}}{b_{m}} \times \frac{n - m}{g} ; deg f_{1} \leq deg f_{-} n$ - ncm 一 n 三 L

$$-\int_{0}^{\infty} f = 0$$

$$\int_{0}^{\infty} f = 0$$

$$\int_{0}$$

3.5. Anoporon 2n general
$$f = 3 \times^{4} + 2 \times^{2} + \times -5$$

$$\left(\frac{3}{2} \times^{2}, g\right) \times^{4} + \frac{3}{2} \times^{3} + \frac{3}{2} \times^{2}$$

$$-\frac{3}{2} \times^{3} + \frac{1}{2} \times^{2} + \times -5$$

$$\left(-\frac{3}{4} \times \cdot g\right) - \frac{3}{2} \times^{3} - \frac{3}{4} \times^{2} - \frac{3}{4} \times$$

$$\frac{5}{4} \times^{2} + \frac{7}{4} \times -5$$

$$(\frac{5}{8}9/\frac{5}{4}x^2 + \frac{5}{8}x + \frac{5}{8}$$

305. Levous Tylenbur M= {f-9g|9C-F-[X]} rEM - chin-bucko cieven =) V=f-28,8.e.f=93+V How lay $r \geq s$ and g $r = s_0 x^n + \dots ; q = s_0 x^m + \dots$ Egnetlende : f= g2+r, = g2+r2 u dogr, dogr, e
dagg 19(2-92)=12-17 begg + beg (2-2) = deg (12-1/2) < deg g beg (2-92) < 0 = 27 2-92 = - 8 = 27 2-92-0 27 2 = 92 => F1 = F2 300. 11 comp stefabre voione en spoostonen optiver e & v cs. koet. hu g a odpoernou en.

T6 BF[X] læren ugeon e indley D-Co I a FCx7; I=107 = I=(0)] + for ; Heren & EI à mammanance ciences lous e, re (51 ⊆ I geI\(\f) => Jq,r: |g=fq+r-r=q-fq&I degredegf => 1 \ (f/= 8 = (f/ 3.5. (2,x) all[x] ke einolen Oth. 1/8=(6,9/: (f)+(9/=(8) (HOD) 21 m = [f,g]: (f/ 1 (g) = (m/ (HUX)

Dry- f/g at 54 : g = fh (EFTX] Ca-bu 1) f/q <-> (f/ \g) 21 f/g = g/S => 3c EF = f=cq f=0 usin g=0 = 1 f=g=0theren $f \neq 0$, $g \neq 0$ (2) f= th, f=ghz -> g=h, h, g => degh, hz =0 h, $\neq 0$ legh = degh = 0 => h, h, $h_2 \in F \setminus \{0\} = F$ (=/ f=cg =) g/f 9=c-1 f =1 8/9

3) (f/= (g/ => fc = F*: f= cg 4/ f/g => f/gh 5) f/g, g => f/g±2 G) f (; 7/ 8/9 ~ 9/h = > 8/h 70 (00p.) 1/ d= (f,g/ => 1) 8/ 6 ~ 8/9 4 Aco 1/f ~ 1/g =) d//d 2/ m= [6, g] (>) 1/ f/m ~ g/m ; 2/f/m' ~ g/m' => m/m'

Te Hf, g Ju, V: uf+Vg=(f,g)

For Suf. (f,g) ble e sapegenen egnosusuno c somor jo odjerne en. m F D-Co (f, 9/402) E (f)+(g) 3ers. d/f = f = d. of - "convener" our degl +0, legt 3.5. 11 (£,91[5,9]=Cfg, CEF* 2/ (fg, fh/= f(g,h) 3/ Amopuron for Elang - ononours he Encue - f/g = 1 f (f,g/= f; - Theoret=

- Ares &= 994 r, 00 130 (L,g) F 20 J (g,r)
- 6ery a one I car polin Dag f & pegon, our of f=gh cnepla, re deg g = D um deg h = v 3 ws. (2) day = 0 um day g = day f u 8.6. The fit of e current (f, g/= 1 un f (c vormer goft) Te. 8/9h, (f,g/=1 =) f/h

D-Co Ju, v: uf+vj=1 => 4h+vgh=h=> f/h 9. f- hegum a flgh - I flg um f/h TQ. Hf = 0 -5 P1, -1/n = f = P1 - Pn ~ /i - Kepasn. Apequolonero a equacilero a Toleroni go pego ha tomismal a grenomente e en. na F na ton Zued. EgypterBenort. 11-1/1=91-9m Vili-hopon. TONEM; JEES, JUEFF: HI Li= Cile(i) 35. Kejosnomusious may one X2-2 - aejoon. kung Q' poon. aug IR X2+1 - kejoon. kung Q a IR I poon. her y C

TC. S- region (=) (+1 & F[X] Moxcumen 2-e₆(=1 Aus 5p: (f) ≤ (g/⊆ F [x] $= \frac{1}{2} \int_{-\infty}^{\infty} (g) = (1) \int_{-\infty}^{\infty} (g) = (f)$ $= \frac{1}{2} \int_{-\infty}^{\infty} (g) = (1) \int_{-\infty}^{\infty} (g) = (f)$ (2) f=gh degg \$0, degf degf degg =0 g/f =) (f/ ⊆ (g) ⊆ F(x) = (g)=(f/am/g/=(1) Cn. J- herom. Es F[X]/(f/ - TICHE 365- F-120 - chor F=p #0 - Up < F Felt beng Up -- KMATT; dom F=n - 1F1=pn 65 perus 1 n-1 -7 4/2 Tom

thus f E Up [x] a treposon u dey f=1, 50 [Cp[x]/(f/ = p" $\frac{3.5.}{K-korr.ap.c.1}, f \in [KTX] \text{ one ci. comb. or } K^{4}$ $|KTX3/(f) = \frac{1}{9} + (f) |g \in KTXJ|$ = 3 9 + (f/) q E (E [x] , dag g c day f } g = fq + r $g = r - fq \in (f) = 1q + (f) = r + (f)$ sley r < dey fdu eque et cenver 1/2 de K que e od nort

3.5.
$$|R \rightarrow C \quad c \quad f = x^2 + 1$$

($\chi^2 + 1 = (upern. long) R$

Area e porn. = 3 L, β $\chi^2 + 1 = (x \cdot t)(x \cdot p)$

2) $\chi^2 + 1 = 0$

(χ^2

$$Y = Y |_{R} : R \rightarrow C_{o} |_{Cur} Y |_{R} (R = 0) = (0), R$$
 $Y |_{R} (R) = R_{o} < C_{o}$
 $Q :_{R} (R) = R_{o} < C_{o} < C_{o}$
 $Q :_{R} (R) = R_{o} < C_{o} < C_{o}$
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