Aufglibe. Besechnen die der red. Goöbner bends con < fy (,) nor f= x2-12y2-4, f2 = xy-1 by. les les - Ordens. 8(fi, fi) = yfr - xf2 = (x2y+2y3-4y) - (x2y-x) $= \times +2y^3 - 4y$ Rem (S(F1, (2); f, f2) = x + 2y3 -4y =: +3 S(P, f3)=1-f1-xf3=(x2+2y2-4)-(x2+2xy3-4xy) - 2xy3 +4xy +2y2-4 Pen (S(1,6,1); tr, tr, tr, ts) =0 -2xy3 +4xy +2y2-4 | +2y2f2= +2xy3-2y2 4xy -4 -4 f2 = -4xy +4 5(fr, f3) = 1.f2 - y.f3 = (ky-1) + (-xy - 2y4 4y2) = -244+442-1 Ram (SCI, f3); f1, f2, f3) = -247+492-1=:f4

$$f_{1} = \chi^{2} + 2y^{2} - 4,$$

$$f_{2} = \chi y - 1$$

$$Rum(S(f_{1}, f_{2}); f_{1}, f_{2}) = \chi + 2y^{3} - 4y = :f_{3}$$

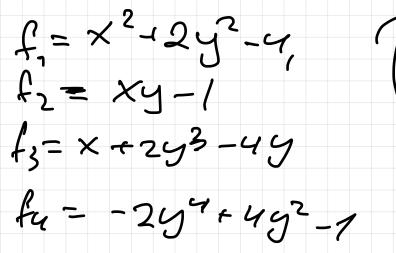
$$Rum(S(f_{1}, f_{3}); f_{1}, f_{2}, f_{3}) = 0$$

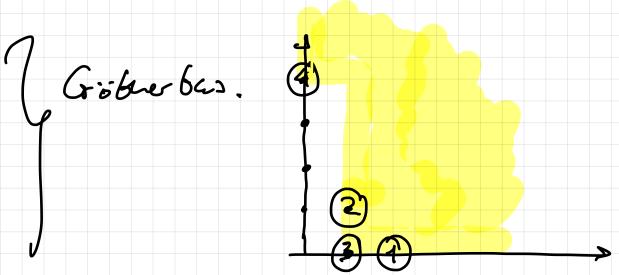
$$Rum(S(f_{1}, f_{3}); f_{1}, f_{2}, f_{3}) = -2y^{3} + 4y^{2} - 1 = :f_{4}$$

$$S(f_{1}, f_{4}) = y^{4}f_{1} + \frac{1}{2}\chi^{2}f_{4} = (\chi^{2}y^{4} + 2y^{6} - 4y^{4}) + (-\chi^{2}y^{4} + 2\chi^{2}f_{2}^{2}f_{3}^{2}f_$$

$$f_1 = x^2 - 2y^2 - 4$$
,
 $f_2 = xy - 1$
 $Rum(S(r_1, r_2); f_1, r_2) = x + 2y^3 - 4y = if_3$
 $Rum(S(r_1, r_3); f_1, r_2, r_3) = 0$
 $Rum(S(r_1, r_3); f_1, r_2, r_3) = -2y^4 + 4y^2 - 1 = if_4$
 $Rum(S(r_1, r_4); f_1, r_1, r_2, r_3) = 0$
 $S(r_1, r_4) = y^3 f_2 + \frac{1}{2} \times f_4 = (xy^4 - y^3) + (-xy^4 + 2xy^2 - \frac{1}{2}x)$
 $= 2xy^4 - \frac{1}{2}x - y^3$
 $= 2xy^4 - \frac{1}{2}x - y^3$
 $= 2xy^2 - \frac{1}{2}x - y^3 + 2y$
 $= \frac{1}{2}x - y^3 + 2y$
 $= \frac{1}{2}x + y^3 - 2y$

$$f_1 = x^2 + 2y^2 - 4$$
 $f_2 = xy - 1$
 $f_{2} = xy - 1$
 $f_{3} = xy - 1$
 $f_{4} = x^2 + 2y^2 - 4y = if_3$
 $f_{4} = x^2 + 2y^2 - 4y = if_3$
 $f_{4} = x^2 + 2y^2 - 4y = if_3$
 $f_{4} = x^2 + 2y^2 - 4y = if_3$
 $f_{4} = x^2 + 2y^2 - 4y = if_3$
 $f_{5} = x^2 + 2y^2 - 4y^2 + 2y^2 - 4y^2 + 2x^2 - \frac{1}{2}x$
 $f_{5} = x^2 + 2y^2 - 4y^2 + 2y^2 - 4y^2 + 2y^2 - \frac{1}{2}x$
 $f_{5} = x^2 + 2y^2 - 4y^2 + 2y^2 - 4y^2 + 2y^2 - \frac{1}{2}x$
 $f_{5} = x^2 + 2y^2 - 4y^2 + 2y^2 - 2x^2 + 2y$
 $f_{5} = x^2 + 2y^2 - 4y^2 + 2y^2 - 2x^2 + 2y^2$
 $f_{5} = x^2 + 2y^2 - 4y^2 + 2y^2 + 2y^2 - 2y^2 + 4y^2 - y^2$
 $f_{5} = x^2 + 2y^2 - 4y^2 + 2y^2 + 2y^2 + 2y^2 - 2y^2 + 4y^2 - 2y^2 + 2y^2 - 2y^2 + 4y^2 - 2y^2 + 2y^2 - 2y^2 + 4y^2 - 2y^2 + 2y^2 - 2y^2 + 4y^2 - 2y^2 + 4y^2 - 2y^2 + 2y^2 + 2y^2 - 2y^2 + 2y^2$





1x + 2y3 - 4y
2y4 + 2y2 - ½

Min insle Cittébresbasis und esse redurante brisbres basis $f_1 = x^2 + y^2 - 1$ $f_2 = xy - 1$ $f_3 = x + 2y^3 - 2y = \lim_{x \to \infty} \left(\frac{S(l_1, l_2)}{l_1, l_2, l_3} \right) = \lim_{x \to \infty} \left(\frac{S(l_1, l_2)}{l_1, l_2, l_3} \right)$ $f_4 = -y^2 - 3 = \lim_{x \to \infty} \left(\frac{S(l_1, l_2)}{l_1, l_2, l_3} \right)$ $-2xy^3 - 2xy + y^2 - 1 = 2xy^2 - 2y^2$ $-2xy - y^2 - 1 = 2xy - 2$ $-y^2 - 3 = \lim_{x \to \infty} -x = x$ $-y^2 - 3 = \lim_{x \to \infty} -x = x$