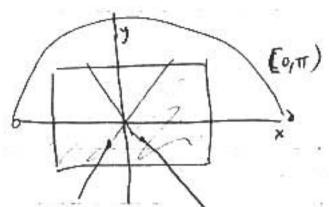
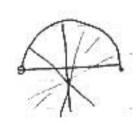
9/13/04



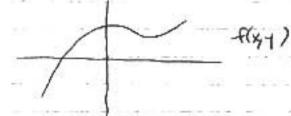
A¹

[a,1,c) ~ (ta,tb,tc) + +0.





P2 = A2 UP'



F(x, Y, Z) = 0.

F(Y, T, 2) => F(+x, +7, +2) =0

---- t +0.

F(XT, 2) = n. F(+x, +Y, +2).

11 12 414

i+j+k = d

homogeneous.

$$x^{2}y - 2^{3} + 2xy^{2} = 0$$

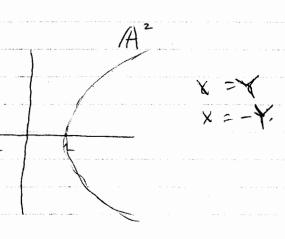
Affine part + infinite part

EA2

EP

$$\chi^{2} - \gamma^{2} - \xi^{2} = 0$$

 $\chi^{2} - \gamma^{2} - 1 = 0$



[1,1] [1,-1] 9/13/04____

Projective lune C: F(X,Y,Z) = 0

Affire Core Co: f(x/y) = F(x, Y, 1) = 0.

Points at infinity: points on C with 7 = 0 Correspond to limiting directions to tangent lines of Co

COLOR DE PERSON III

Dehonogenitation: Going from homogeneous F(X, 7, 2)=0 to inhomogeneous f(X, Y).

 $F(x, y, z) = 3 x^2 y + y^3 - y z^2 + z^3$ $f(x, y, z) = 3 x^2 y + y^3 - y + 1$

Co: f(x,4) = 2 ab xiy = 0.

day f= max i+;

flyx 6,2 + y9 + 2xy1 = 0 deg (f) = 9.

F(X, Y, Z) = I ais XiYiZd-i-i d = day f.

(2) dehomogenization of Fis f. (3) F(X, Y, O) is not identically O.

 $F(x_1Y_1 = x^3 + x^2y^2 - 7xy)$ $F(x_1Y_1 = x^3 + x^2y^2 - 7xy = 7xy =$

$$F(x_{11};t) = x^{3}y - 2x^{2}y^{2} + 2^{4} = 0$$

$$F(x_{1}, y_{1}) = x^{3}y - 2x^{2}y^{2} + 1 = 0.$$

$$F(x_{1}, y_{1}) = x^{3} - 2x^{2} + 2^{4} = 0.$$

$$F(x_{1}, y_{1}) = x^{3} - 2x^{2} + 2^{4} = 0.$$

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$$F(x_{1}, y_{1}) = x^{3}y - 2x^{2}y^{2} + 1 = 0.$$

$$F(x_{1}, y_{1}) = x^{3}y - 2x^{2}y^{2} + 2^{4}y - 2 = 0.$$

$$F(x_{1}, y_{1}) = x^{3}y - 2x^{2}y^{2} + 2^{4}y - 2 = 0.$$

$$F(x_{1}, y_{1}) = x^{3}y - 2x^{2}y^{2} + 2^{4}y - 2 = 0.$$

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$$F(x_{1}, y_{1}) = x^{3}y - 2x^{2}y^{2} + 2^{4}y - 2 = 0.$$

$$F(x_{1}, y_{1}) = x^{3}y - 2x^{2}y^{2} + 2x^{2}y - 2x^{2}y^{2} + 2x^{2}y - 2x^{2}y^{2} + 2x^{2}y - 2x^{2}y^{2} + 2x^{2}y - 2$$

 $C(\mathcal{D}) \in C(\mathcal{Q}) \quad (ensed)$ $C(\mathcal{D}) = C(\mathcal{Q})$ $C_0(\mathcal{D}) + C_0(\mathcal{Q})$ $C_0(\mathcal{D}) = \{(r,s) : \ell(s) > 0, r, s \in \mathcal{D}\}.$ $\chi^2 + \chi^2 = 1 \quad \left(\frac{3}{5}, \frac{4}{5}\right) \left(\frac{5}{13}, \frac{12}{13}\right)$

(5,5) (73,73) (41,0) $(0,\pm1)$