Note Title 10/17/2008

$$\begin{aligned}
\chi &= 2n' + y' \\
\gamma' &= n' + y' \\
\omega &= 2n' + y' + \omega'
\end{aligned}$$

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\chi &= 2n' + 2n' \\
\chi &= 2$$

 $\frac{42y'w'}{4x'^2+4y'^2+4n'y'+4n'w'+2n'y'=}$ $\frac{4x'^2+y'^2+w'^2+4n'y'+4n'w'+2y'w'}{4x'^2+y'^2+w'^2+4n'y'+4n'w'+2y'w'}$

-i. ht + ret + 2 ure - 4u - 2ve - 1 = 0

This is a parabola.

-i. finite pts. on aircle has been neade for infinite pts.

Two parallel luins 4n+y=5 4n+y=3 4n+y=5W w=4 w=4

$$\frac{1}{\omega} - \frac{1}{\omega} = 5$$

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 $4n+y=3\omega$ $8n'+4y'+n'+y'=6n'+3y'+3\omega'$ $3n'+2y'=3\omega'$ $3n'+2y'=3\omega'$

a 3n + 2u = 3 1. These two lines intersect.

Lets take the general case

 $m_1 n + y = c$ $m_2 n + y = d$

$$m_{1}(2n^{2}+y^{2}) + (n^{2}+y^{2}) = C_{1}(2n^{2}+y^{2}+2n^{2})$$
 $w(2m_{1}+1-2e)n^{2}+(m_{1}+1-2)y^{2}$
 $w(2m_{1}+1-2e)u+(m_{1}+1-2)u$
 $= C$

Similarly
 $(2m_{2}+1-2d)u+(m_{2}+1-d)u=e$
 $2m_{1}+1-2e$
 $2m_{2}+1-2d$

$$\frac{2m_1+1-2c}{m_1+1-c} = \frac{2m_2+1-2d}{m_2+1-d}$$

$$\frac{2m_{1}+1}{m_{1}+1} = \frac{2m_{2}+1-2d}{m_{2}+1-d}$$

$$2m_{1}m_{2} + 2m_{1} - 2m_{1}d + m_{2}+1-d$$

$$= 2m_{1}m_{2} + m_{1} - 2dm_{1} + 2m_{2}$$

$$+x - 2d$$

$$\sim m_{1} - m_{2} + d = 0$$

$$\sim m_{2} - m_{1} = d$$

$$\therefore y = m_{1}x$$

$$y = m_{2}x + d$$

$$\therefore xd = 1$$

$$m_{2} = q \qquad m_{1} = 3$$

$$y = 3x$$
 $y = 4x + 1$

: These two lines that intersed in (2,3) Space vill be parallel after they are projected.

with slope

$$\frac{2m_{1}+1}{m_{1}+1} = \frac{7}{4} = \frac{2m_{1}+1-2d}{m_{2}+1-d}$$

$$8+1-2 = 7$$

$$= \frac{8+1-2}{4+1-1} = \frac{7}{4}$$