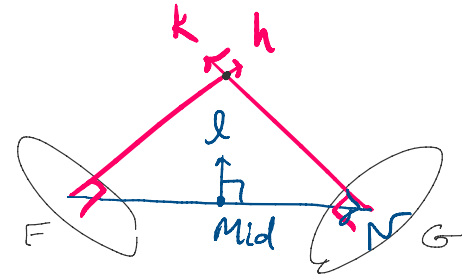
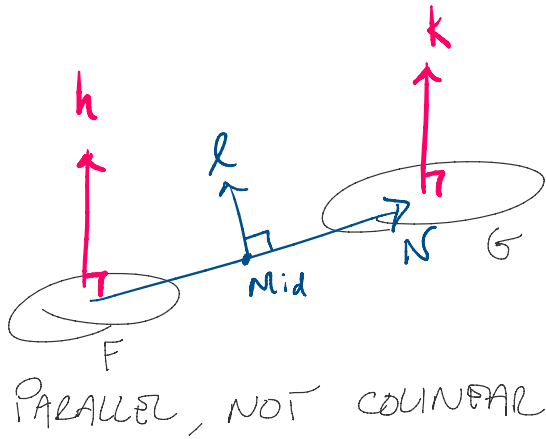


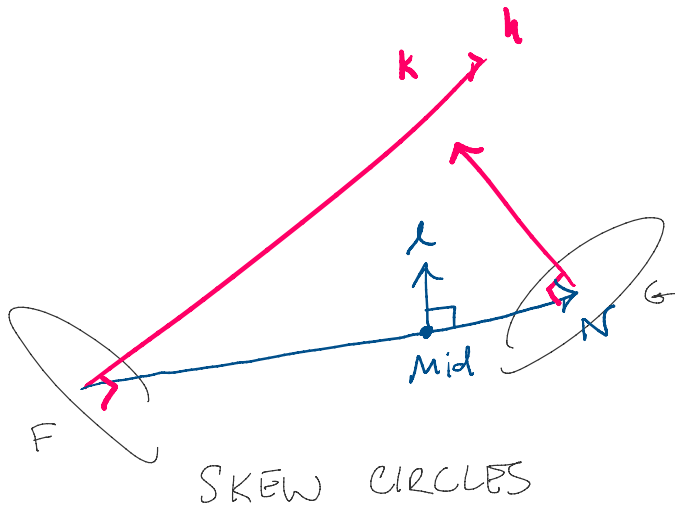
# More arm notes

Sunday, January 9, 2022 10:42 AM

## INTERSECTING CIRCLES



## INTERSECTING NORMALS



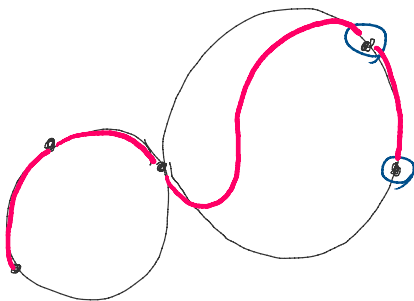
## PLANE P

$$\vec{N} \cdot (\vec{l} - \vec{v}) = 0$$

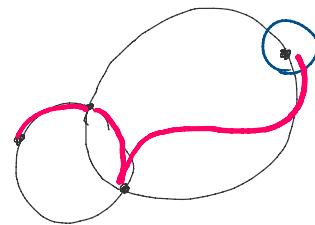
$$\text{Mid} = \frac{1}{2} \overline{FG} = \frac{1}{2} (\vec{G} - \vec{F})$$

$$\vec{N} = \overline{\text{Mid}G}$$

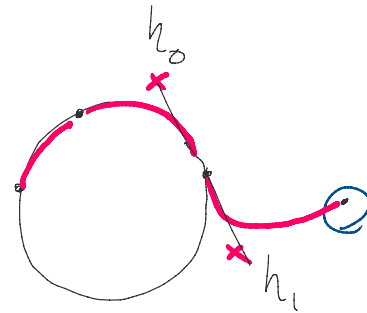
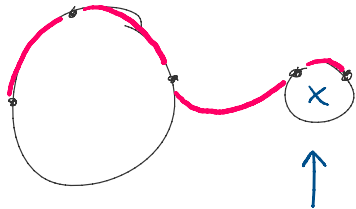
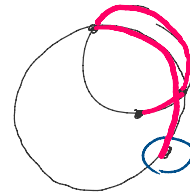
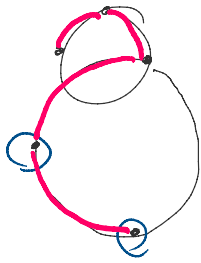
$$\vec{v} = \langle x, y, z \rangle$$



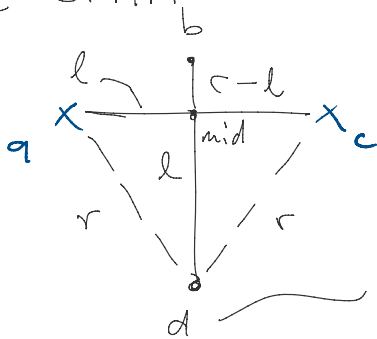
2 ORPHANS



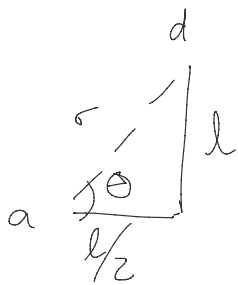
1 ORPHAN



2 ORPHANS



CIRCLE CENTER



$$r = \sqrt{l^2 + \left(\frac{l}{2}\right)^2}$$

$$\theta = \tan^{-1}\left(\frac{l}{\frac{l}{2}}\right)$$

$$= \tan^{-1}(2)$$

CUBIC

$$mid = \frac{1}{2}(c-a)$$

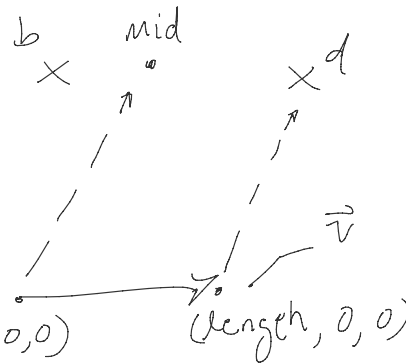
$$d = \left(\text{length} \cdot \hat{x}\right) + mid$$

$$b = -\left(\sqrt{l^2 + \left(\frac{l}{2}\right)^2} - l\right) \cdot \hat{x} + mid$$

1 ORPHAN

$$h_1 = -h_0$$

QUADRATIC



find Center (a, b, c)