







$$h_1^2 \left(1 + e_2 \cos \theta_2 \right) = h_2^2 \left(1 + e_1 \cos \theta_1 \right) \quad (3.22)$$

Set

$$\theta_2 = \theta_1 - \theta_1 \qquad (3.23)$$

Pecall $\cos(\alpha - \beta) = \cos(\cos \beta + \sin \delta \sin \beta)$
 $\cos(\theta_1 - \theta_1) = \cos(\cos \theta_1 + \sin \theta_1 \sin \theta)$

It 3.22

$$h_1^2 - h_1^2 = h_2^2 e_1 \cos \theta_1 - h_1^2 e_2 \cos \theta_2$$

$$h_2^2 e_3 \cos \theta_1 - h_1^2 e_2 \left(\cos \theta_1 \cos \theta_1 + \sin \theta_1 \sin \theta \right)$$

$$\cos \theta_1 \left(h_2^2 e_1 - h_1^2 e_2 \cos \theta_1 \right) + \sin \theta_1 \left(-h_1^2 e_2 \sin \theta_1 \right) = h_1^2 - h_1^2$$

Further a $b = k \cos \theta$

$$\cos \theta_1 + \sin \theta_1 + b = c \qquad (3.24)$$

$$ext's = h_1 \cos \theta_1 + \sin \theta_1 + b = c$$

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$$\cos \theta_1 + c = c$$

$$\cos$$

$$\frac{x = out}{\cos(\theta_1 - \theta_2)} = \frac{coord}{\cos(\theta_1 - \theta_2)} = \frac{coord}{\cos(\theta_1 - \theta_2)}$$

$$\frac{\partial_1 - \theta_2}{\cos(\theta_1 - \theta_2)} = \frac{coord}{\cos(\theta_1 - \theta_2)}$$

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