$$y_{1} = t_{1} \cos \theta_{1}$$

$$x_{2} = t_{1} \sin \theta_{1} + t_{2} \sin \theta_{2}$$

$$y_{2} = -t_{1} \cos \theta_{1} - t_{2} \cos \theta_{2}$$

$$y_{3} = t_{1} \cos \theta_{1} + t_{2} \sin \theta_{2}$$

$$y_{4} = -t_{1} \cos \theta_{1} - t_{2} \cos \theta_{2}$$

$$y_{5} = -t_{1} \sin \theta_{1} + t_{2} \sin \theta_{2} = m_{1} \times t_{1}$$

$$y_{7} = t_{1} \cos \theta_{1} - t_{2} \cos \theta_{2} - W_{1} = m_{1} \cdot y_{1}$$

$$y_{7} = t_{1} \cos \theta_{1} - t_{2} \cos \theta_{2} - W_{1} = m_{1} \cdot y_{1}$$

$$y_{7} = t_{1} \cos \theta_{1} - t_{2} \cos \theta_{2} - W_{1} = m_{1} \cdot y_{1}$$

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$$y_{7} = t_{1} \cos \theta_{1} - t_{2} \cos \theta_{2} - W_{2} = m_{2} \cdot y_{2}$$

$$y_{7} = t$$

X,= Usin O,

• For mass 1:
$$\frac{1}{F_1} = \frac{1}{X_1} = \frac{1}{Y_1}$$

$$\frac{1}{F_2} = \frac{1}{Y_1} = \frac{1}{Y_2}$$

$$\frac{1}{F_1} = \frac{1}{F_2} = \frac{1}{F_2}$$

$$\frac{F_1}{M_1} = \overrightarrow{X}_1 = \overrightarrow{V}_1$$

$$(F_{y_1})$$

$$(F_{y_1}$$

$$\frac{F_1}{M_1} = X_1 = Y_1$$

$$\frac{F_2}{M_1} = X_1 = Y_1$$

$$\frac{F_1}{M_1} \Rightarrow \frac{\Delta V_1}{\Delta t} = \frac{F_1}{M_1} \Rightarrow V_{\text{new}_1} = V_{\text{old}_1} + \frac{F_1}{M_1} \Delta t$$

$$\frac{F_2}{M_1} \Rightarrow \frac{\Delta V_1}{\Delta t} = \frac{F_1}{M_1} \Rightarrow V_{\text{new}_1} = V_{\text{old}_1} + V_{o$$











$$\frac{\overrightarrow{F_2}}{M_1} = \overrightarrow{X_2} = \overrightarrow{V_2}$$

$$\overrightarrow{F_2} = \left(\begin{array}{c} F_{X_2} \\ F_{Y_2} \end{array} \right)$$

$$\frac{F_2}{M_1} = \overrightarrow{X}_2 = \overrightarrow{V}_2$$

$$\frac{1_2}{M_1} = X_2 = V_2$$

$$\frac{1}{M_{1}} = \frac{1}{M_{2}}$$

$$\frac{1}{M_{2}} = \frac{1}{M_{2}}$$

$$\frac{$$

First: T2 = W2 cos 82 Then: Ti = W1 cos0, +T2 cos(02-01) T,= W, cos 0,+ W2 cos 02 cos (02-0,)

· To find T, T2: