

There are two constraint eq.

$$y_2 = 0, \qquad (y_1 - y_2) = \tan d.$$

$$y_2 = 0, \qquad (x_1 - x_2) \tan d = 0$$

$$f_2 = y_2 = 0.$$

Could be in (64 2.25)

Using the Drowla for the force of constraint, we have.

$$Q_{x_1} = -n_1 \tan d$$

$$Q_{x_2} = n_1 \tan d$$

$$Q_{y_2} = n_2$$

Putting it with the Lagrangian derival equations, we have

$$m_{y_1} + m_2 = n_2$$

$$m_{y_2} + m_3 = n_2$$

$$m_{y_2} + m_3 = n_2$$

$$y_1 - cx_1 - x_2 + cx_3 + c d$$

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$$y_{2}=0 \Rightarrow y_{2}=0 \Rightarrow \lambda_{2}=M_{g}$$

$$m y_{1}=m(x_{1}-x_{2}) \tan d, m y_{1}=m(x_{1}-x_{2}) \tan d$$

$$m(x_{1}-x_{2}) \tan d + M_{g}=\lambda,$$

$$m \tan d(-\lambda_{1} \tan d - \lambda_{1} \tan d) + M_{g}=\lambda,$$

$$m = \lambda_{1} \left[1+(1+\frac{M}{M}) \tan^{2}d\right]$$

$$\lambda_{1}=\frac{m \cdot 2}{\left[1+(1+\frac{M}{M}) \sin^{2}d\right]}$$

$$= \frac{m \cdot 2}{\left[1+(1+\frac{M}{M}) \sin^{2}d\right]}$$
These completes the colution for the forces of constraint.

$$\lambda_{1}=M_{g}$$

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It's then straightforward to solve for
$$x_1, y_1, x_2$$
:

$$x_1 = -\frac{\lambda_1}{m} \tan d \frac{1}{2} t^2$$

$$y_1 = (\frac{\lambda_1}{m} - g_1) \frac{1}{2} t^2$$

$$x_2 = \frac{\lambda_1}{m} \tan d \frac{1}{2} t^2$$
Now compute nork done by force of constraint:

Now force by $\sqrt{m} \propto \left(-\frac{\lambda_1}{m} \tan d, \left(\frac{\lambda_1}{m} - g_1\right)\right) \frac{1}{N} \propto \left(\frac{\lambda_1}{m} \tan d, 0\right)$
where are interted in direction of $\sqrt{m} = \left(-\frac{\lambda_1}{m} \tan d, \lambda_1\right) + \frac{1}{N} = \left(\frac{\lambda_1}{m} \tan d, \lambda_2\right)$

$$\sqrt{n} \propto \sqrt{n} + \frac{1}{m} + \frac{1}{m} \sqrt{n} + \frac{1}{m} + \frac{1}{m} \sqrt{n} + \frac{1}{m} + \frac{1}{m} \sqrt{n} + \frac{1$$