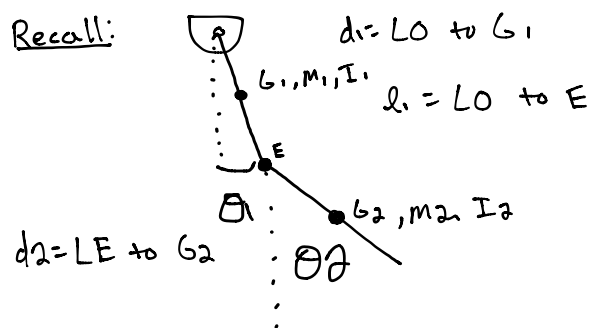


Double Pendulum (4/4) Grocery Cart

Recall:



$$EoM \rightarrow \begin{bmatrix} M \end{bmatrix} \begin{bmatrix} \ddot{\theta}_1 \\ \ddot{\theta}_2 \end{bmatrix} + \begin{bmatrix} F(q, \dot{q}) \\ \text{centripetal} \\ \text{Coriolis terms} \end{bmatrix} + \begin{bmatrix} g(q) \\ \text{gravity} \\ \text{forcing} \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

Is code right? no Matlab errors but... do checks

checks: energy conserved?

Set $g=0$, is AMB conserved

special cases, extreme cases

make first pendulum really heavy

make second mass really small

* do animation