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SCRATCH COMPUTATIONS $\frac{\partial}{\partial x} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \theta} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 1 \quad , \quad \frac{\partial}{\partial \dot{\theta}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{\theta}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{\theta}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{\theta}) = 1$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0$ $\frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{\partial}{\partial \dot{x}} (\dot{x}) = 0 \quad , \quad \frac{$ $\frac{d(\ddot{x}) = -mg}{d(\partial x)(\dot{\theta}) = 0} = \frac{d(\ddot{\theta}) = 0}{d(\ddot{\theta}) = 0} = \frac{d(\ddot{\theta}) = 0}{d(\ddot{\theta}) = 0} = 0$ NOTE : AC3, 2) = -mg/L A&B motrix have been defined. x = Az + BN