

$$M(\dot{q}^{+} - \dot{q}^{-}) = I_{c_{2}} I_{c_{2}}$$

$$I_{c_{2}} \dot{q}^{+} = 0$$

$$M(\dot{q}^{+} + J_{c_{1}} I_{c_{2}} = M(\dot{q}) \dot{q}^{-})$$

$$(a) M(\dot{q}^{+} + J_{c_{1}} I_{c_{2}} = M(\dot{q}) \dot{q}^{-})$$

$$(a) M(\dot{q}^{+} + J_{c_{1}} I_{c_{2}} = M(\dot{q}) \dot{q}^{-})$$

$$(b) M(\dot{q}^{+} + J_{c_{1}} I_{c_{2}} = M(\dot{q}) \dot{q}^{-})$$

$$(c) M(\dot{q}^{+} + J_{c_{1}} I_{c_{2}} = M(\dot{q}) \dot{q}^{-})$$

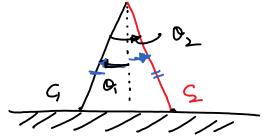
$$(d) M(\dot{q}^{+} + J_{c_{1}} I_{c_{2}} I_{c_{2}} = M(\dot{q}) \dot{q}^{-})$$

$$(d) M(\dot{q}^{+} + J_{c_{1}} I_{c_{2}} I_{c_{2}} = M(\dot{q}) \dot{q}^{-})$$

$$(d) M(\dot{q}^{+} + J_{c_{1}} I_{c_{2}} I_{c_{2}}$$

w,++wt

(3) Petect ground



ya-ya= height of sning leg 6 wrt stance leg 9

 $y_{c_2} = y_q \longrightarrow \text{detect ru ground}$ $y_{c_2} = y_q \longrightarrow \text{detect ru ground}$ $y_{c_2} = y_q$ $y_{c_2} = y_q$

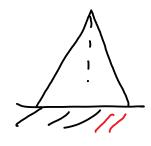
One issue

92 = 20, is not two time

When legs are rearly vertical $O_z = 20_1$

2 Normal





see collision-m event in ode 45.

