Basics of hybrid systems

- have different equalisms depending on
which mode they are operating in

Example: Bouncing ball

- a) Free ball
- b) Before bounce
- c) After bounce

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† ý†

a) free fall:

ÿ = - g ♣

b) bounce: y=0

ÿ+=-e ÿ-

e= (o-efficient of restitution 0 < e < 1

free fall Bounce of free fall Bounce

one-bounce (repeating unit)

(<u>ode</u>

odess have 'events' to detect
y 20 & stop integration