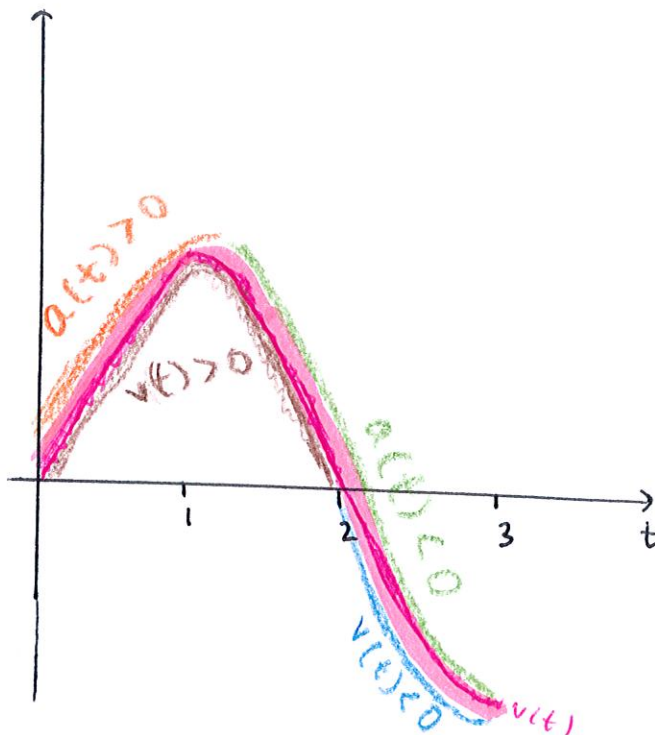


5. a.

$v(t) =$



Speeding up:

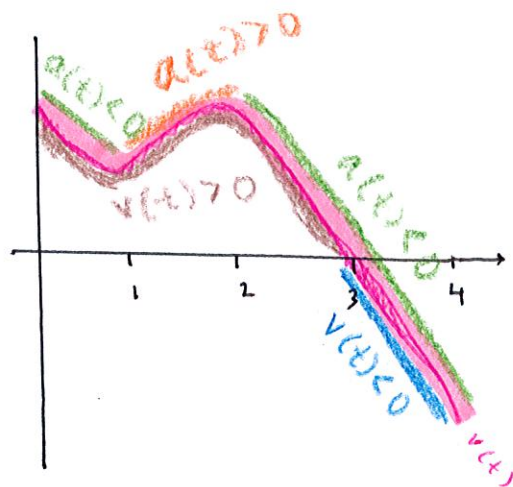
$(0, 1)$ $(2, 3)$ { where velocity & acceleration are both > 0 or both < 0

slowing down:

$(1, 2)$ { where velocity & acceleration have different signs

b.

$v(t) =$



speeding up:

$(1, 2)$ $(3, 4)$

{ where velocity & acceleration are both > 0 or both < 0

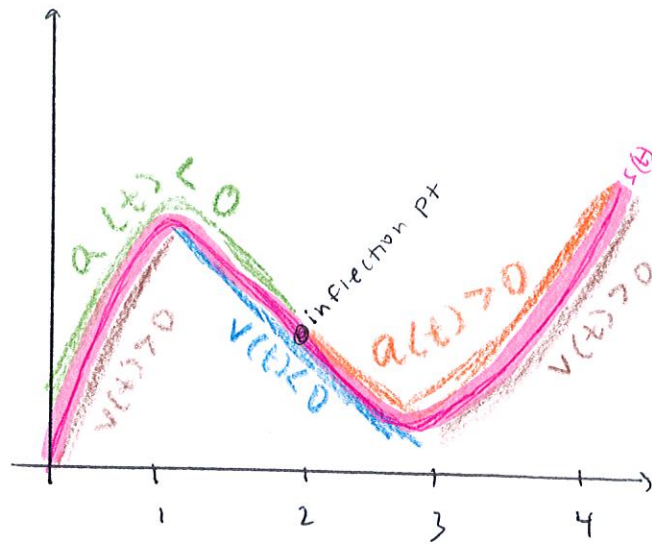
slowing down:

$(0, 1)$ $(2, 3)$

{ where velocity & acceleration have different signs

b. a.

$s(t) =$



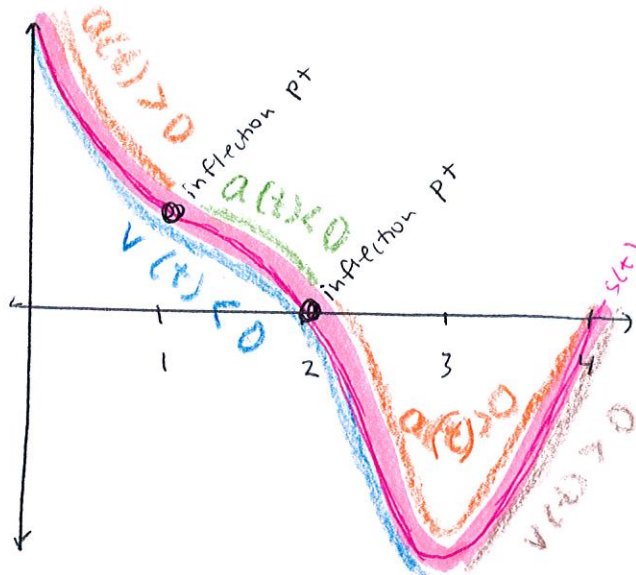
speeding up:

(1, 2) (3, 4) { where velocity + acceleration have same signs

slowing down:

(0, 1) (2, 3) { where velocity + acceleration have different signs

b. $s(t) =$



speeding up:

(1, 2) (3, 4) { where velocity + acceleration have same signs

slowing down:

(0, 1) (2, 3) { where velocity + acceleration have different signs