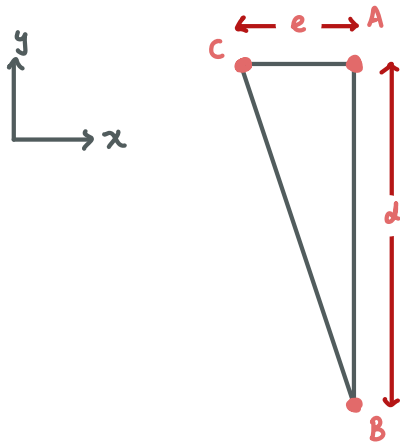# UPRIGHT

A: upper point of upright
B: lower point of upright / lower suspension mounting point
C: upper suspension mounting point
d: height of upright
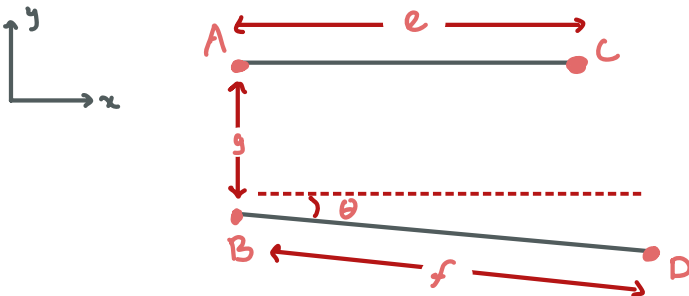e: offset between upper and lower suspension mounting points

$$d = 7 \text{ in}$$
$$e = 2 \text{ in}$$

we want to set the "d" dimension to be maximum length while fitting inside 13" wheels

we want "e" to be as small as possible while maintaining the camber change we want (1" travel — 1° camber change)

NEED TO KNOW: "e" dim for desired camber
"d" max to fit in wheel

CONTROL ARMS

A: upper suspension mounting point, determined by tube location
B: lower suspension mounting point, determined by tube location
c: upper upright mounting point
D: lower upright mounting point

g: will be driven by θ and the upright mounting points
e: will be a set value determined by the offset between upper and lower control arms
f: determined by upper and lower control arm offset and θ
θ: important, driven by ride height, desired camber

top view of suspensions would be related to tube frame mounting points

NEED TO KNOW: "θ" for camber + ground clearance
"g" for mounting that will still fit in wheel