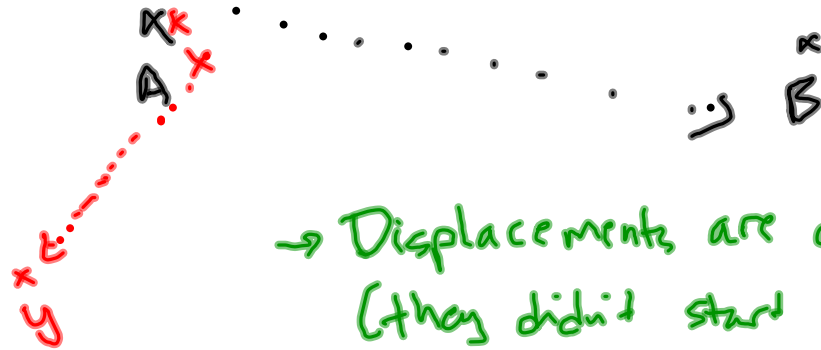


Acceleration:

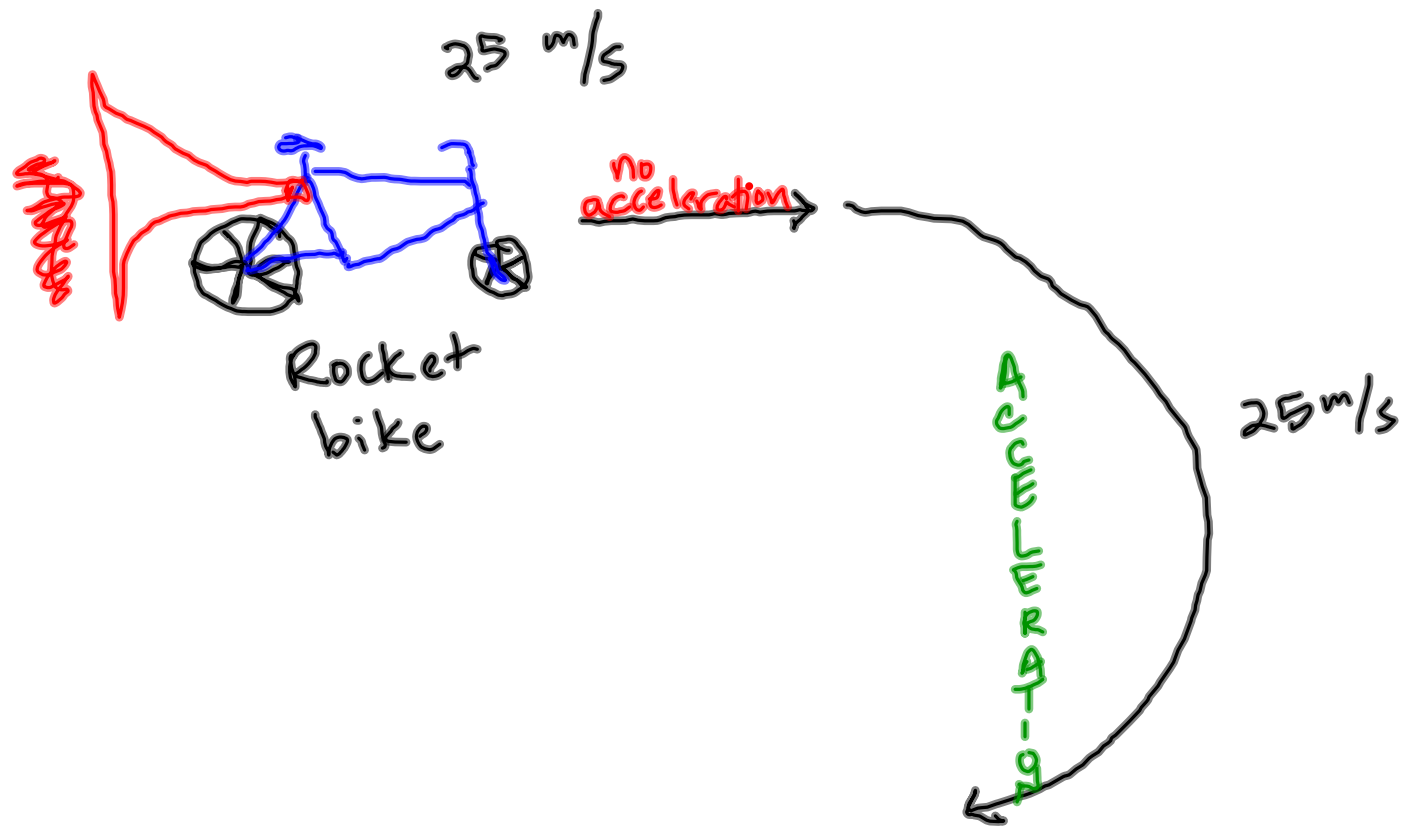
A change in an object's velocity.
Objects accelerate when they:

1. Speed up
2. Slow down
3. Changes direction

both displacement and velocity are
concerned with direction



- Displacements are different
(they didn't start and end at the same point)
- Velocities are different
- Accelerations are different



Acceleration: What is it? (A change in velocity)

How is your racer accelerating?

How can we use math to understand acceleration?

$$\text{acceleration} = \frac{\text{(final) velocity}_2 - \text{(starting) velocity}_1}{\text{time}}$$

$$a = (v_a - v_i) \div t$$

$$a = (v_f - v_i) \div t$$