Thursday, January 10

brought to you by the letters MOTION

Joe Bonamassa

housekeeping

You should be into MasteringPhysics

You should be on Facebook

You should have taken LON-CAPA out for a spin

indeed, done the Lesson 4 stuff

any issues? See me after class!

See me if you didn't see your name on the GRL code-list

You should watch the course home page which is a Wordpress blog Did you sign up for Feedburner?

Let's review where you should be... chipbrock.org

Try the welcome videos again!

https://qstbb.pa.msu.edu/storage/QS&BB2019/videos_2019/



more

housekeeping

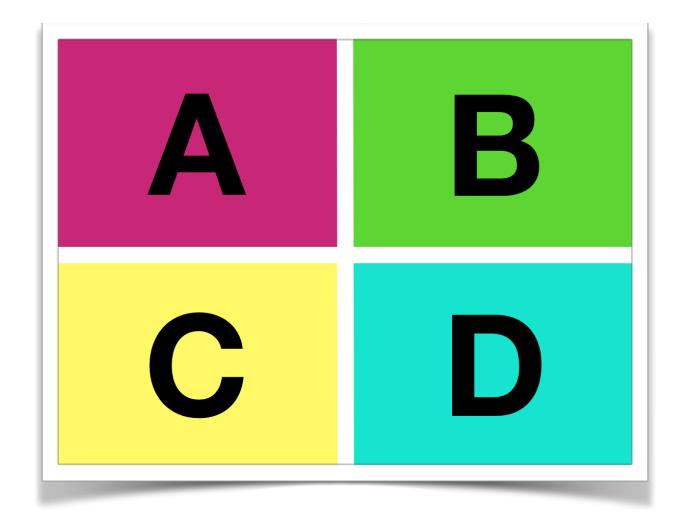
Athletes
Honors Students
now we're done.



"CAPER"* cards







The routine:

C

- 1. Lask a question with D responses
- 2. You fold your card and put it on your forehead
- 3. Then you defend your answer to the person next to you
- 4. I might then ask a second time
- 5. "I don't know?" ...show a blank square

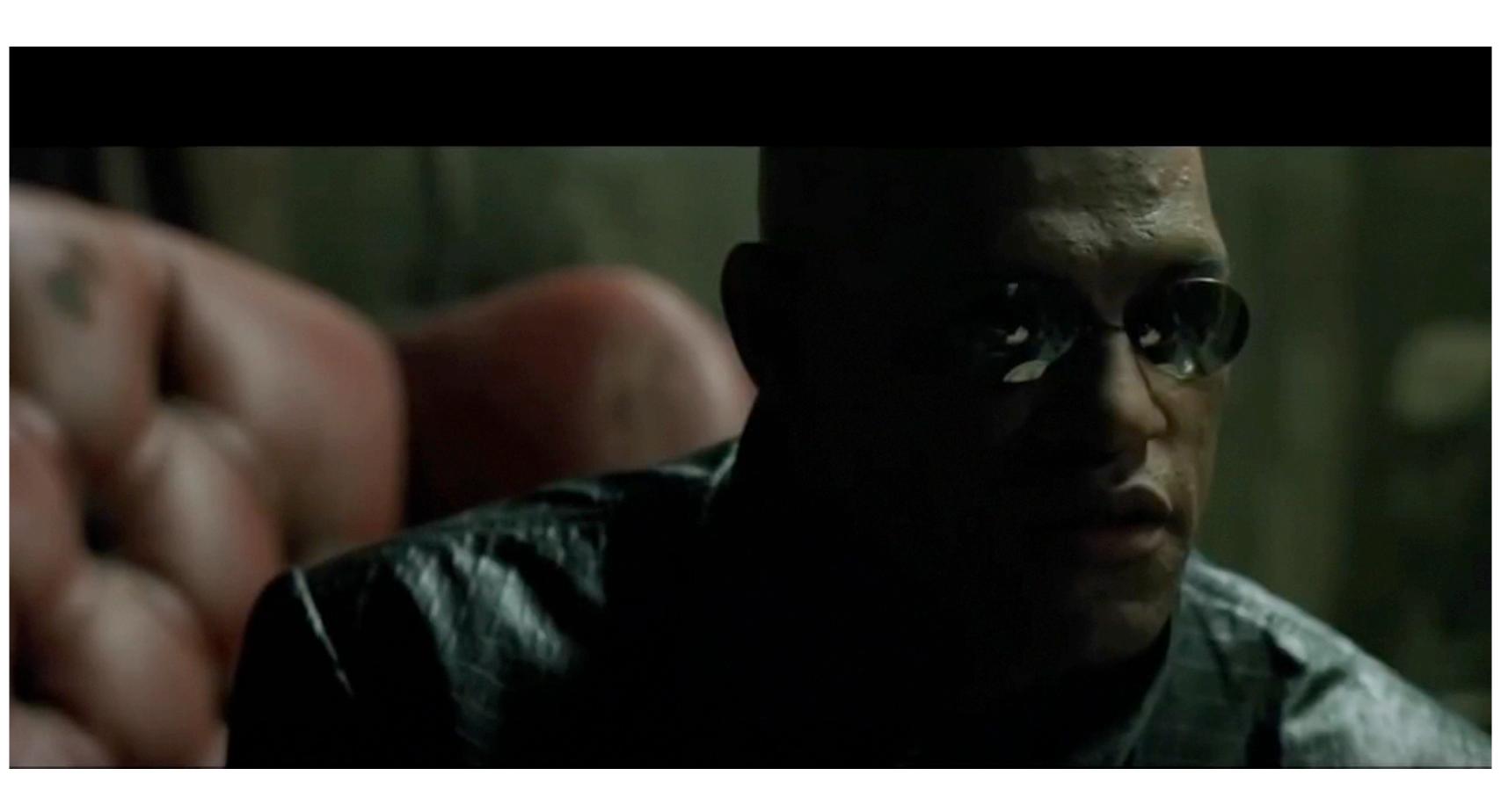
Bring it to class or:

There's an app for that:

https://itunes.apple.com/us/app/capercard/id843445157?mt=8
https://play.google.com/store/apps/details?id=com.hexational.capercard&hl=en

reading quiz

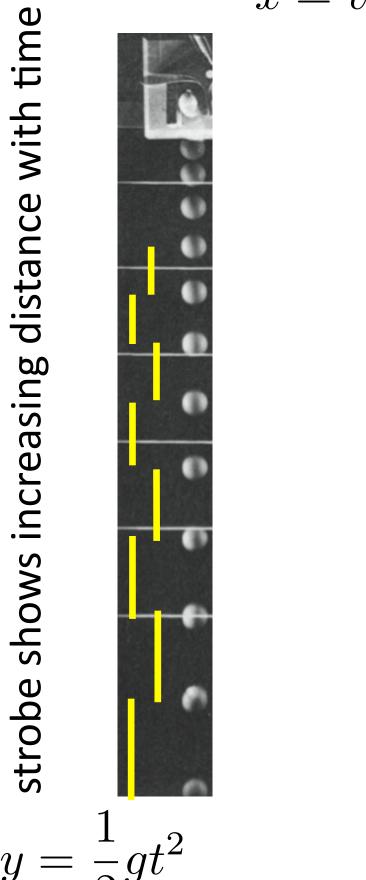
a word.



demonstrations



 $\begin{array}{cc} \mathrm{drop} & \mathrm{shoot,}\, v \\ x = vt \end{array}$



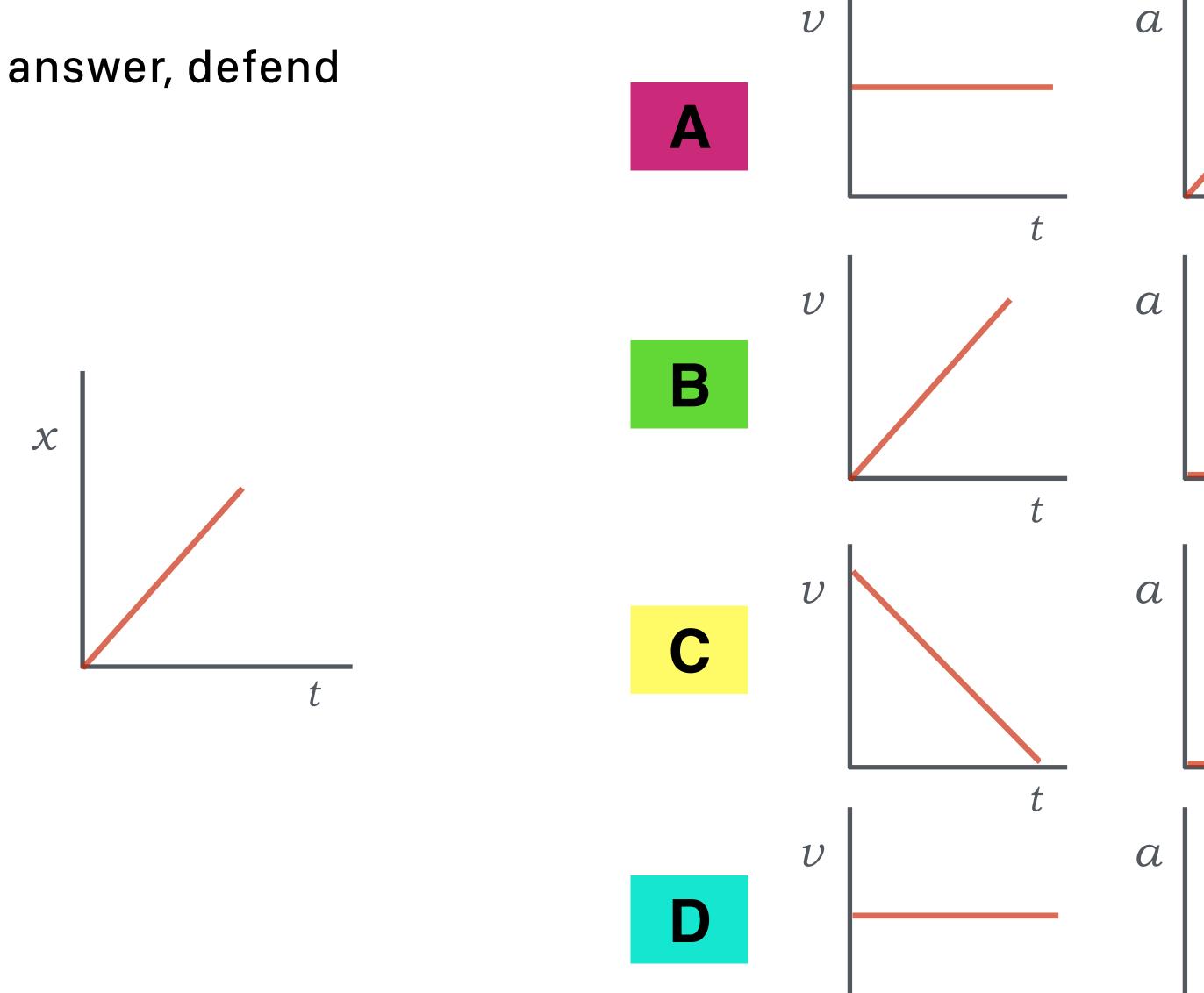
some questions for all of us

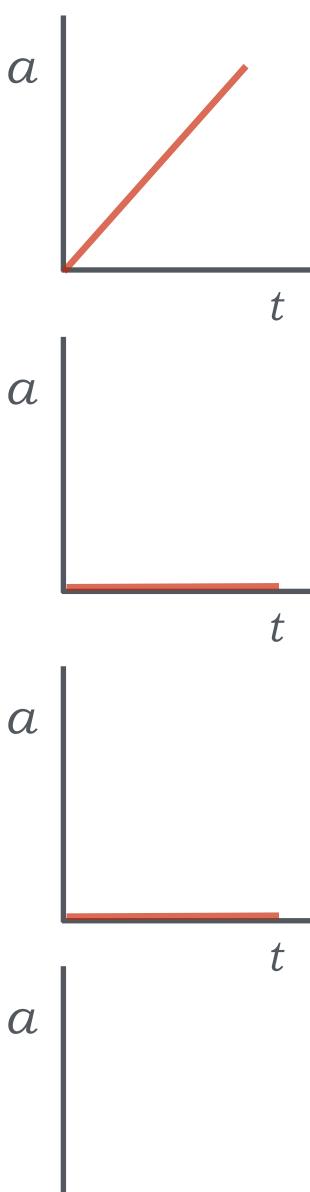
answer, defend

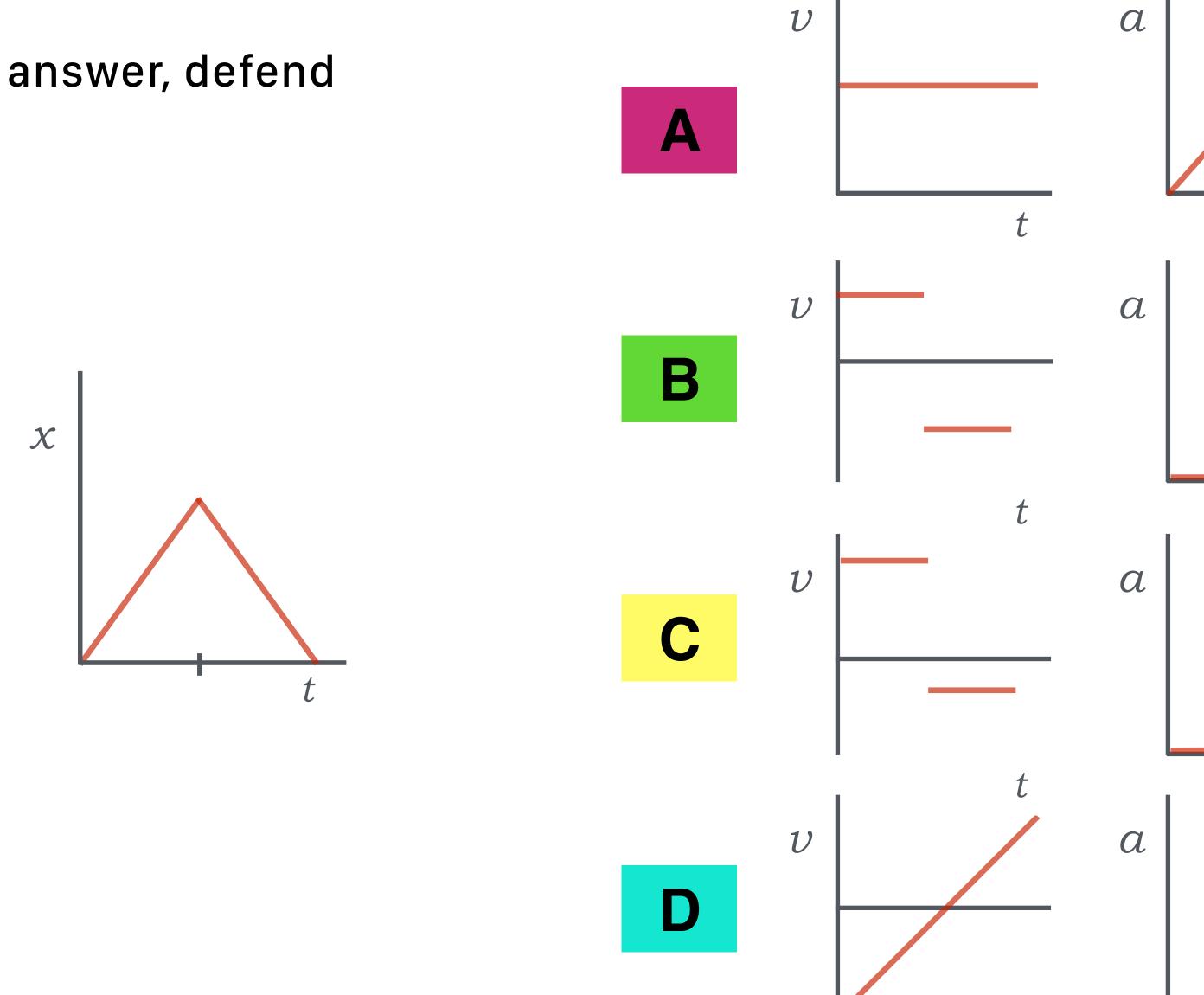
Clem skis off a cliff and knocks his cell phone off the edge, which was just sitting there. Somehow all of the air has disappeared at Jackson Hole.



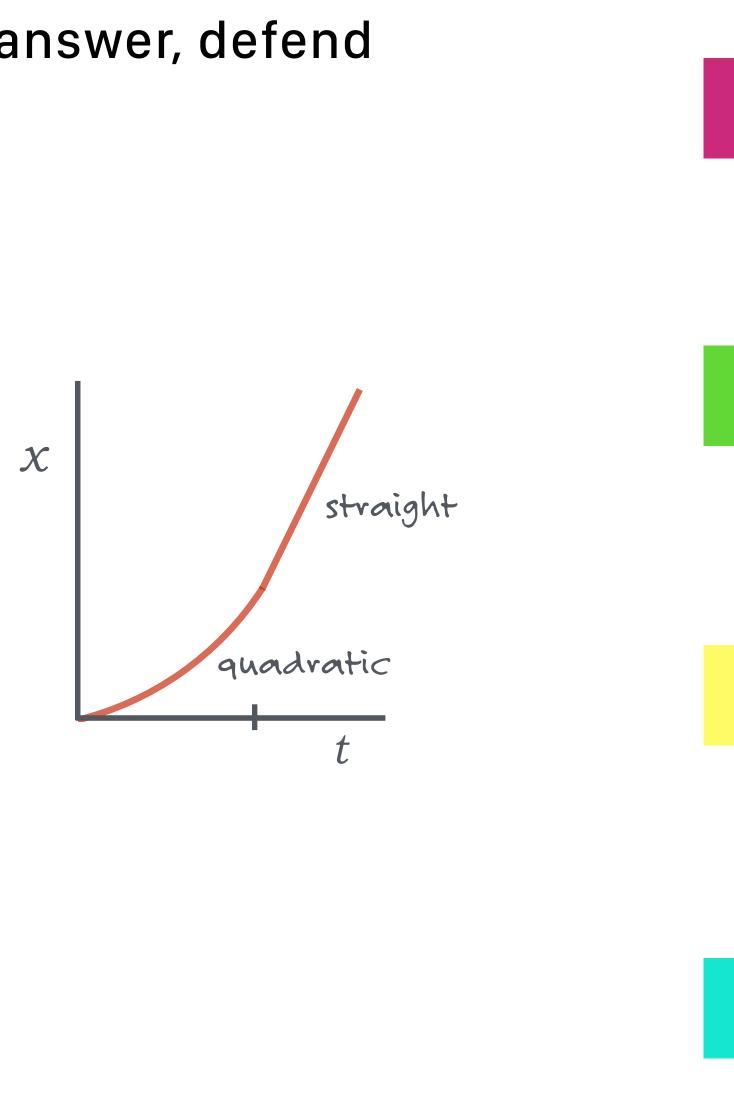
- Clem gets to the ground before his phone
- Clem & phone get to the ground at the same time
- C Clem gets to the ground after his phone
- The phone doesn't fall since there are no bars

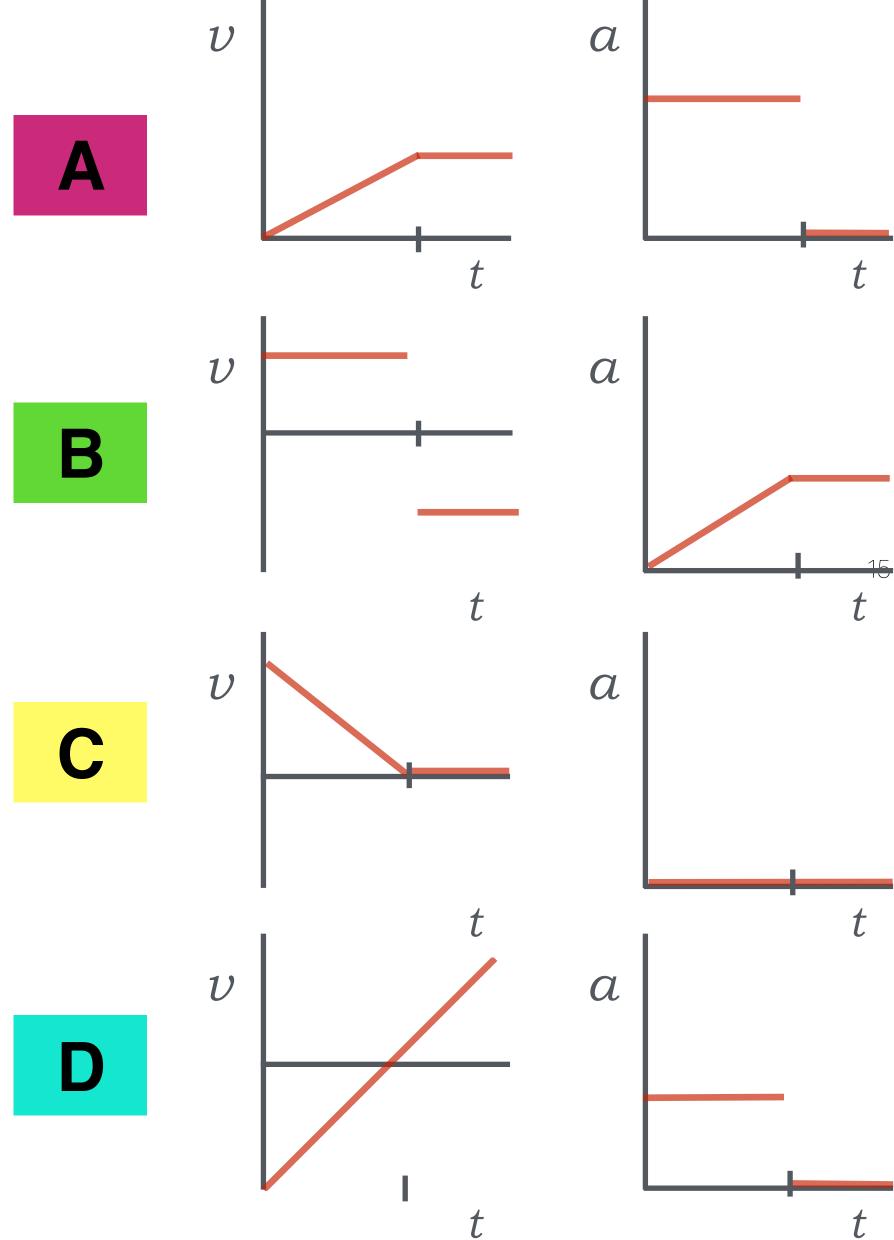




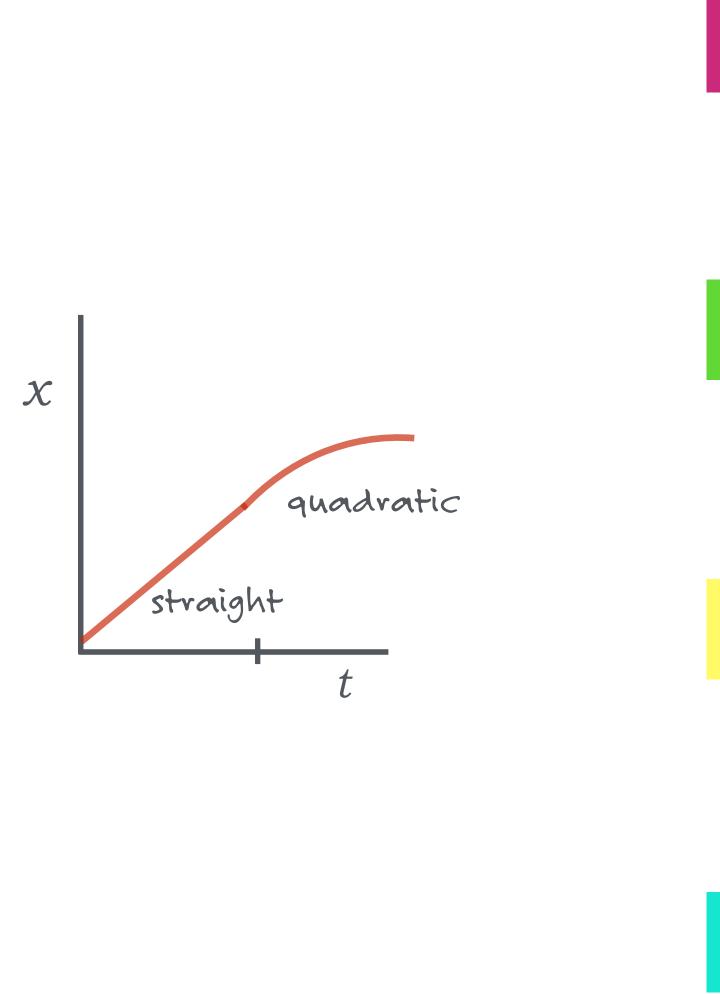


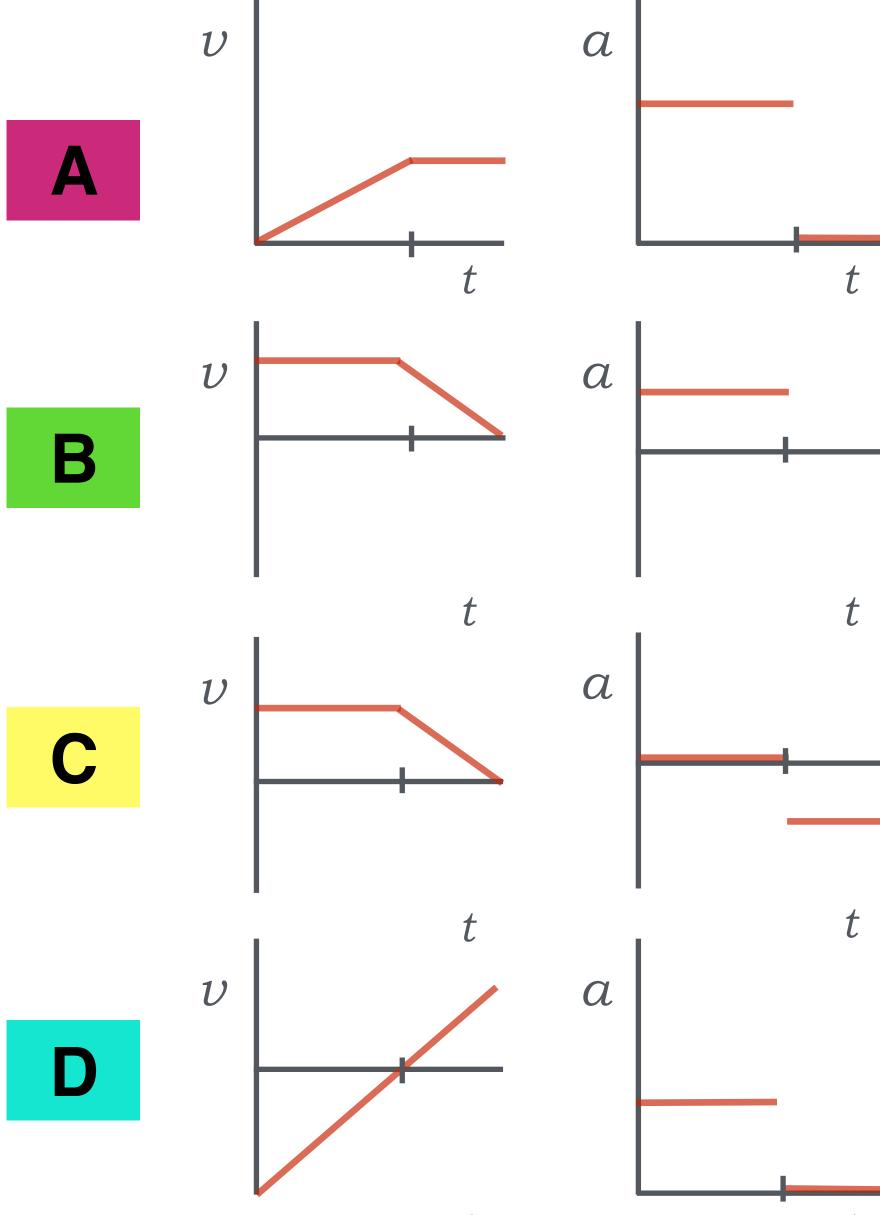
answer, defend





answer, defend





project

you'll need an approximate straight-edge you'll need a stop watch/phone thingy

a trip, man.

starts moving



VR, or "rotate"





Runway is 9,000 feet long.

After some time, it reaches "v1" and "vR"

measure time from starting to "rotate"

you'll hear:

"100 knots"...computer (~115mph)

"V1"...computer

"rotate"...human

Measure the number of seconds from start to "rotate":



https://qstbb.pa.msu.edu/storage/QS&BB2019/videos_2019/Google%20ChromeScreenSnapz001.mov

