

#flo #disorganized #inclass

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## 1 | Test :clap: review ☐

homework

dot product -> scalar, thus not closed!

we will learn about the determinant before the cross product

### 1.0.1 | system of equations

don't do substitution when doing lin alg can represent system of equations with a matrix – can solve with matrices matrix of coef \* the vars advantage: cleaner, easier to enter into a computer

parallel systems

benefit in both directions -- understanding one helps us understand the other and vice versa

### 1.0.2 | questions

- $|a| |b| \cos\theta$
- dot product to calc magnitude
  - dot by itself then sqrt
- system of equations with matrices, what do we multiply by
  - to mul row by x: take identity, swap out y index 1 with x
  - can just add, but not on the other side?
    - \* some type of decomp?