#ret #hw

## 1 | Solving Systems

Read 1.B! Have questions. Try a couple exercises. notes: KBxChapter1B

Also, keep thinking about the group work questions from today:

- · What is the relationship between cross product and the magnitude of a vector?
  - Which vector? Assuming resultant vector,  $||a||b|sin(\theta)|$  would be the magnitude
- How does cosine relate to dot product? Can you prove it? (HINT: think about the previous problem and the Law of Cosines.)
  - $a \cdot b = |a||b|cos(\theta)$
  - [abcosthetaproof.pdf]
- \*Do your best to solve the following matrix equation using matrix multiplications that correspond to row
  operations for systems, specifically multiplying a row by a scalar, adding two rows, and swapping the
  order of rows. You'll have to think about how to do these things with matrices! It may help to keep in
  mind what a SOLVED matrix equation looks like (in particular, what does the 3x3 matrix of coefficients
  look like?).\*

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