Source: [KBe2020math530floIndex]

Participation

· Unmute yourself

Homework Review

From homework 20math530retReadingTheTextbook

Is Dot Product Nice?

- · Nice = group properties
 - · They aren't because its not closed
 - However, we still like dot product because it can easily tell us if the thing is perpendicular

Inverse of a matrix

- Use 2 systems of equations (2 variables, 2 equations, twice) [KBe20math530srcMatrixInverse].png
- $y = \frac{c}{bc ad} = \frac{-c}{ad bc}$
- Determinant determines whether its possible to have an inverse (because if it's zero, then it's not possible!)
 - · A matrix with no inverse is SINGULAR
 - Determinant of A is zero
 - · A has no inverse

Proof Attempt Discussion Page?

Small Groups

- 1. Calculate cross products
- 2. Graph cross products
- 3. Cross Product geometry?
 - · It's the perpendicular!
- 4. Determinant geometric interpretation?
 - · It's the perpendicular! IF you crossproduct-ify
 - \$

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