

Source: [KBe20math530flowIndex](#)

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?
 4. Determinant geometric interpretation?
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