Spring 2022 precal
Lesson 13.1

Dr. O'Brien
Herbert Lehman High School
3 May 2022

Do now

Be sure to…
1. Find seat. Take out notebook/binder. Copy date and goal.
2. Find $A \times B$. Show all work!

$$A = \begin{bmatrix} 0 & 2 & 3 \\ 1 & -1 & 5 \\ 2 & 0 & 4 \end{bmatrix}, B = \begin{bmatrix} 2 & -1 & 1 \\ 4 & 3 & 4 \\ 0 & 0 & 1 \end{bmatrix}$$

class: Python **goal:** matrix multiplication/matrix inverse review

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Today's activity: Review

1. For the pairs of matrices below, find $(2A \times B) - A$

A. $A = \begin{bmatrix} 2 & 2 \\ 1 & 2 \end{bmatrix}, B = \begin{bmatrix} 1 & 4 \\ -3 & 2 \end{bmatrix}$

B. $A = \begin{bmatrix} 2 & 2 & 1 \\ 1 & 2 & -1 \\ 0 & 2 & 3 \end{bmatrix}, B = \begin{bmatrix} 1 & 4 & 1 \\ -3 & 2 & -1 \\ 2 & 3 & 1 \end{bmatrix}$

2. For the system of equations below, (i) convert to a matrix equation, (ii) use the adjugate and determinant to find the inverse, (iii) solve the system of equations

$5x - 2y = -9$
$-7x + 3y = 13$

3. When you finish,work on test corrections or missing psets

Announcements
1. Quiz #2 retake on **Thursday**
2. MP linear optimization final project Friday-Monday

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- Make sure students are working quietly. See CodeHS problem guides for specific Python activities.

Frequently asked questions:

+I don't know what to do!?! Make sure to carefully read the instructions. Take notes when watching the video.

+What are you trying to do with your program? answers will vary, direct student to assignment instructions.

+how can I figure out why my code doesn't work? Try getting out a piece of paper, and following your commands yourself. What do you draw. Where

do things go wrong?
+What do I do if I forget a command? See the docs section of CodeHS.

Dr. O'Brien, 5/4/22

wrapping up!

be sure to: read the directions below!

1. Make sure there isn't any litter near your workstation.
2. If you borrowed headphones, sign them back in.
3. **Make sure you are logged out of your computer!**
4. Remain in your seat until the bell rings.

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