

Tutorial Request Form (TRF) Pre-work Inquiry (Before the Tutorial)

Subject: Trig.			Name: Jon		
Standard Essential Question:			AVID Period: 5°		
Finding inverses			Date: 2/10/11		
Pre-Work Inquiry	Resources	Collaborative Inquiry	Note-Taking	Reflection	Total
/12	/1	/2	/3	/7	/25

Initial/Original Question:

Source, Page # and Problem #: Chap. 7-6

Find the inverse of $\begin{bmatrix} 1 & -3 \\ -1 & 2 \end{bmatrix}$

/1

Key Academic Vocabulary/Definition Associated With Topic/Question:

- 1. Inverse the opposite of something
- 2. Matrices- a pattern of numbers or expressions []

- 1. The inverse of a matrix equals 6,17
- 2. The formula for finding the inverse -Ax=I

/2

Critical Thinking About Initial Question:

Formula Ax=I

$$A = \begin{bmatrix} 1 & -3 \\ -1 & 2 \end{bmatrix} \quad 1 -3 \qquad 1 \quad 0$$

$$I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \qquad 1 - 2 \qquad 0 \quad 1$$

$$X = ? (Poc)$$

$$X = ? (Poc)$$

Identify General Process and Steps:

- 1. Write out formula
- 2. Identify the parts of the formula
- 3. Set up corresponding matrix (Ax)

/2

Question From Point of Confusion: Explain how to manipulate a matrix into its I apply this to the following equation



Three-Column Note-Taking (In Class—During the Tutorial)

Take three-column notes (question/notes/steps or process) during the tutorial on notebook paper. Keep your notes in your binder to study.

Reflection (In Class—After the Tutorial)

My point of confusion is based on a focus area from my Tutorial Analysis Grade Reflection: \nearrow Yes \square No I was a student presenter during tutorial today: \nearrow Yes \square No

In the space below, elaborate on the following questions as you reflect on the tutorial process: What was your/ the point of confusion? What did you learn about the point of confusion? When/how did you gain a new/ greater understanding about the point of confusion? How does this new learning connect to previous learning/ experiences, yourself and/or the world? What did you find meaningful about the tutorial session?

My point of confusion was the manipulation of the matrices to get into Gauss-Jordan. What I learned about my point of confusion is that it is always the bottom equation that is replaced. I gained a greater understanding of my point of confusion when I realized the bottomline of the matrix is always the new equation. This learning is important because it connects to my previous learning experience because it helps me solve all the Gauss-Jordan problems. What I found meaningful about today's tutorial is I learned a technique that will help me on another problems.

Jon's 3 - column Notes



Question

Notes

Steps

Explain blu to MUNIPULATE & Matrix int its invest Rom. How (40 We Apply this to the following ewstion? [-1/3]

Gauss Jordan

$$A = \begin{bmatrix} -3 \\ -12 \end{bmatrix}$$

$$T = \begin{bmatrix} 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1-3 \\ 0 \end{bmatrix} \begin{bmatrix} 0 \\ 1 \end{bmatrix} \begin{bmatrix} -7 \\ 0 \end{bmatrix} \begin{bmatrix} 1-3 \\ -7-3 \end{bmatrix} \begin{bmatrix} 0 \\ 10 \end{bmatrix} \begin{bmatrix} -2-7 \\ 10 \end{bmatrix}$$

1. I dentify A GAJ I

2. Plug them into the equation AX = I

3. Marinulate the equation until we 9et [0 1]

4. Confirm Final equation