Accel Precalc Notes: Inverse of Matrices Name _____

Unit 3: Matrices

Lesson 5: Inverse of Matrices (part 2)

EQ:

Part II: Finding A^{-1} Algebraically

Ex. 1 Given $A = \begin{bmatrix} 1 & 2 \\ 3 & 5 \end{bmatrix}$ find A^{-1}

If _____, then $\begin{bmatrix} \_ & \_ \\ \_ & \_ \end{bmatrix} \bullet \begin{bmatrix} \_ & \_ \\ \_ & \_ \end{bmatrix} = \begin{bmatrix} \_ & \_ \\ \_ & \_ \end{bmatrix}$

- Use matrix multiplication: $\begin{bmatrix} \_\_\_\_\_ & \_\_\_\_\_ \\ \_\_\_\_\_ & \_\_\_\_\_ \end{bmatrix} = \begin{bmatrix} \_ & \_ \\ \_ & \_ \end{bmatrix}$
- Solve using a system of equations:

Ex. 2 Find R^{-1} algebraically given $R = \begin{bmatrix} 2 & 4 \\ 3 & 5 \end{bmatrix}$.

Assignment: Practice Worksheet 4.3 #7 – 10, 12