

AM2 and Math 3
Unit 1 Task 2 Practice

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

1. Find A^{-1}
2. Find $A \cdot A^{-1}$
3. Find B^{-1}
4. Find $B \cdot B^{-1}$
5. Find $\det(A)$
6. Find $\det(B)$
7. Find $\det(C)$
8. Find the area of a triangle with vertices $(0,0)$, $(0,4)$, and $(5,0)$.
9. Find B^2
10. Explain which properties hold true for matrices and show an example.

	Addition	Multiplication
Commutative		
Associative		
Identity		
Inverse		

Distributive _____