

Chapter 5 – Matrices

Swapping Rows (R1)

- The order of a matrix is used to indicate size $\begin{pmatrix} 2 & 3 \end{pmatrix}$ is a 2×3
- Matrices represent transformations
- $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$ are the identity matrices for 2×2 and 3×3 matrices respectively
- The determinant identity is the same even further, and can be written out as $\det(A) = \det(A^{-1})$ for a 2×2 matrix, $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$
- In the determinant is equal to 0, the matrix is said to be singular
- Non-singular matrices have an inverse. It can be calculated using:
$$A^{-1} = \frac{1}{\det(A)} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$$
- Matrix multiplication is associative: $(AB)C = A(BC)$
- $\det(A^{-1}) = 1/\det(A)$ (The inverse is true of the transpose of A as is $\det(A)$)

Then determinant of a 2×2 is

Using the 2×2 matrix $\begin{pmatrix} 2 & 3 \\ 4 & 5 \end{pmatrix}$

To find the \det , we need to first calculate the matrix of minors, and need to calculate the minor for each element:

For example:

To find out the minor of 2, we need to cross out the row with 2, and the column with 2, which is the bottom left with a 2×2 matrix, the determinant of which will be the minor.

$$\begin{pmatrix} 2 & 3 \\ 4 & 5 \end{pmatrix} \rightarrow \begin{pmatrix} 5 \end{pmatrix} = 5$$

We calculate this for every element of the matrix, but in the case of finding the determinant we only need to calculate the minors of a row or column (e.g. we could find the minor of 2, and 3 for a 2,3 matrix)

When we calculate the \det we also need to consider the matrix of cofactors. This is the matrix of minors but with the signs changed. The signs alternate the matrix as:

$$\begin{pmatrix} + & - \\ - & + \end{pmatrix}$$

We also need to multiply by the original element.

The determinant of our original matrix (calculating using the first column) is:

$$\det(A) = +2 \cdot 5 - +3 \cdot 4 = -2$$

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