$\lim_{h \to 0} \frac{f(x+h) - f(x)}{h},$

The **derivative** is the limit

if this limit exists as a finite number.

The derivative has important applications in physics as a rate of change and as a linear approximation.

The derivative can be evaluated using appropriate formulas

linearly independent rows in a matrix.

Rank can be used to prove or

Rank is a maximal number of

disprove linear independence of vectors and it also appears in the Frobenius Theorem.

To find the rank of a matrix, you have to convert this matrix into row echelon form.



















































