

Some Basic Math

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1. $\arg \max$ vs. \max

$\max f(x)$ is the maximum value (if it exists) of $f(x)$ as x varies through some domain.

$\arg \max f(x)$ is the value of x at which this maximum is attained.

In short, $\arg \max$ is the value of x , while \max is the value of the function $f(x)$.