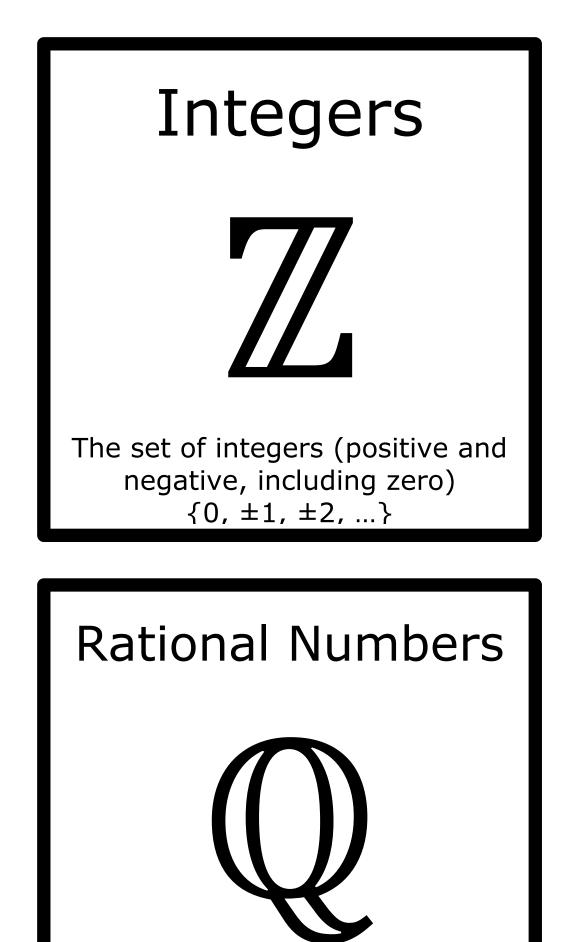
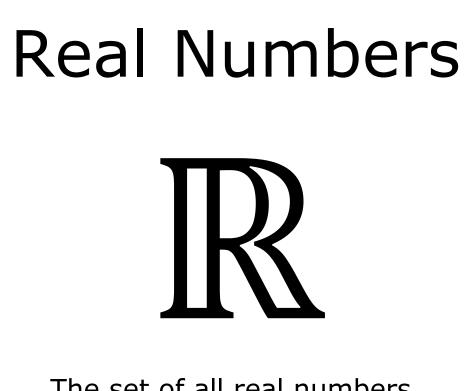


{1, 2, 3, ...}



A number that is rational can be expressed as a fraction  $\frac{a}{b}$ 



The set of all real numbers, positive and negative, rational and irrational

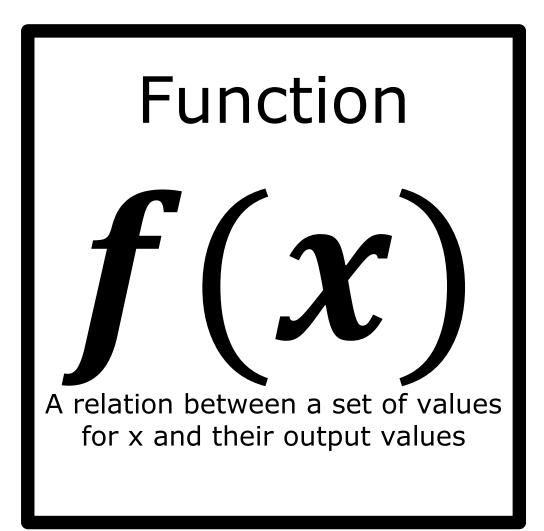
## Identity

Used to show two expressions which are identical, ie equal for all values of x

### Approximately



Used to show two expressions or values which are approximately equal



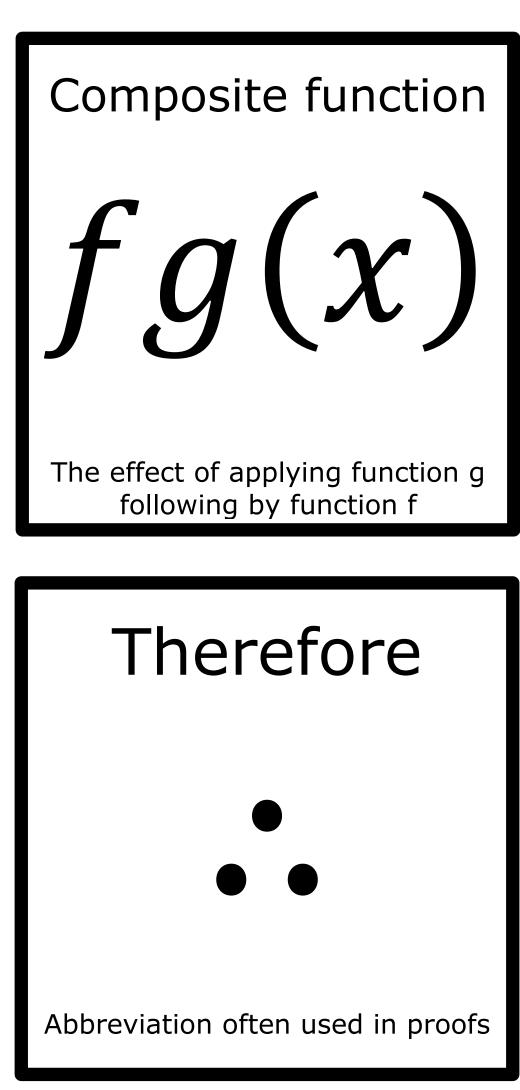
# Logarithm $log_a x$

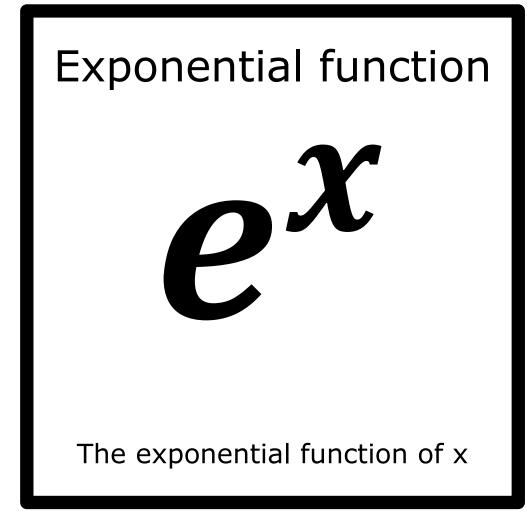
The logarithm to the base a of x

#### Modulus

X

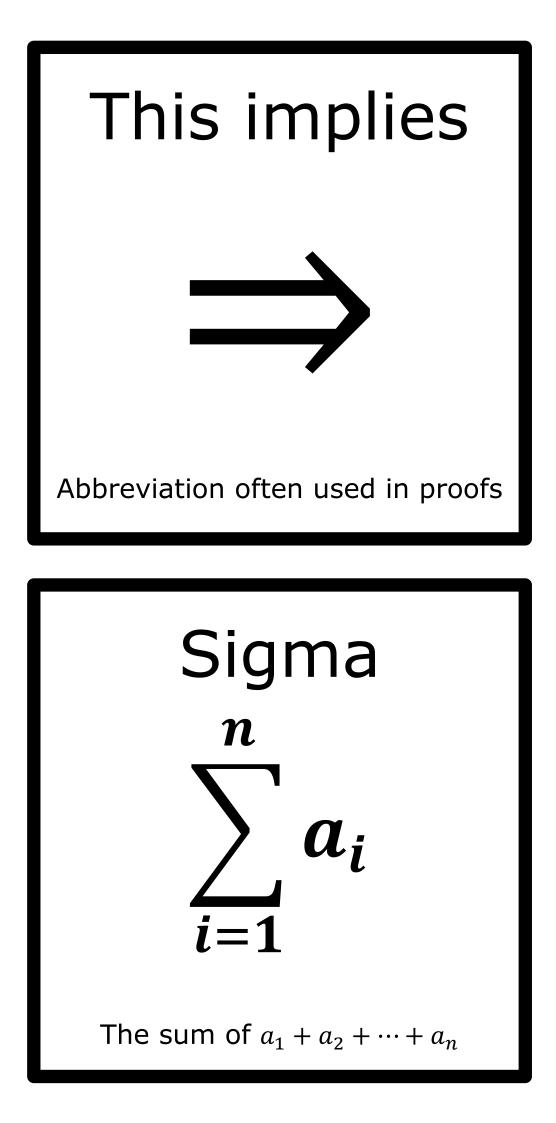
The modulus of x. The absolute value. (The positive value of x, ignore any negative sign)





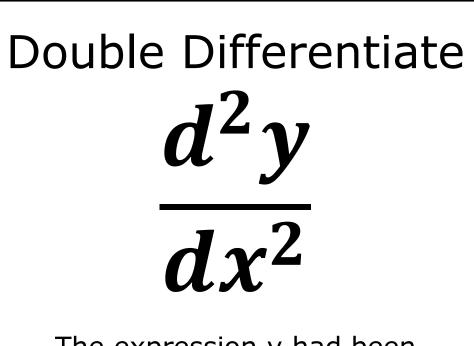
#### Natural logarithm

The natural logarithm of x (logarithm to the base e of x)

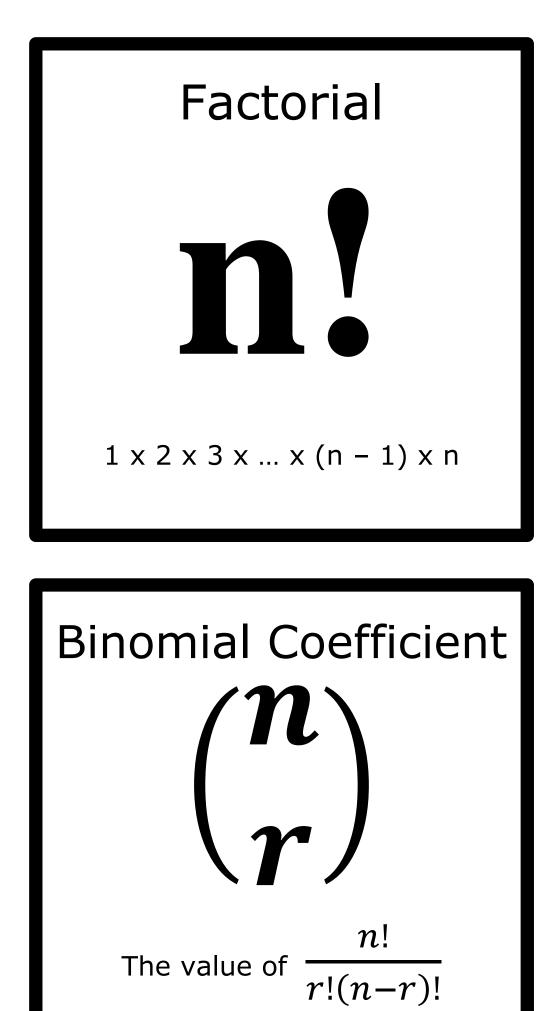


Integral  $\int^{\nu} f(x) \, dx$ 

The integral of f(x) between the limits a and b. Integration is the inverse of differentiation and is the area under the curve.

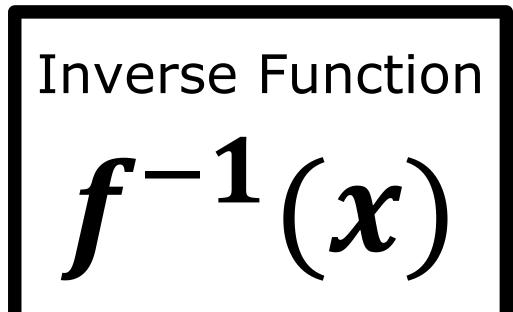


The expression y had been differentiated with respect to x twice (to find the nature of the turning point)

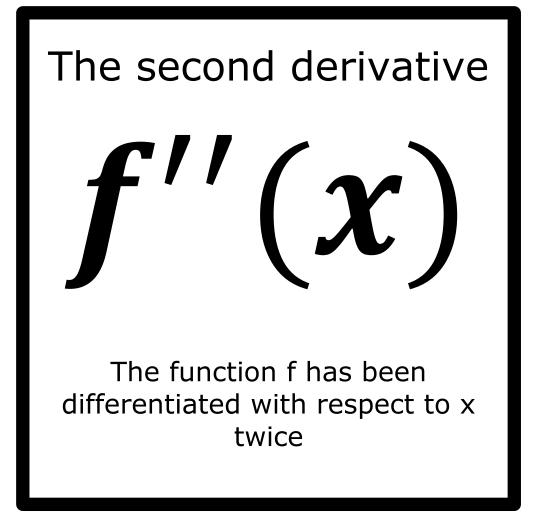


# Differentiate dy dx

The expression y had been differentiated with respect to x (to give the gradient function)

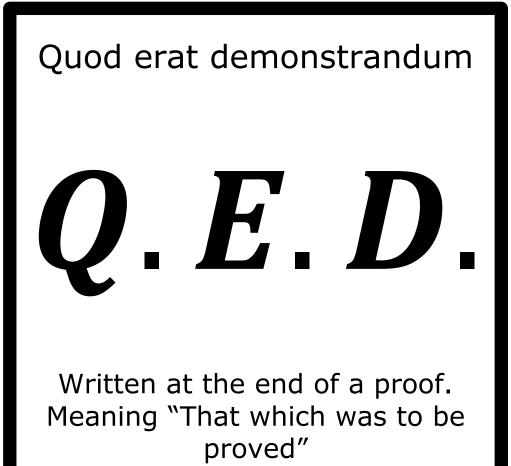


The inverse function to the function f

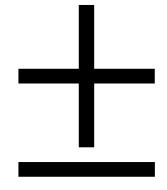


#### The first derivative

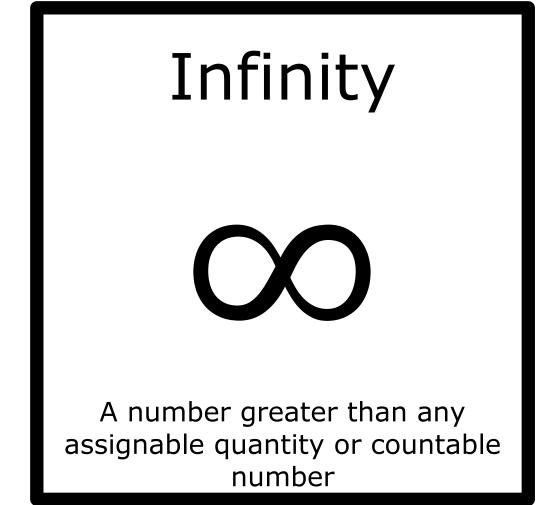
The function f has been differentiated with respect to x



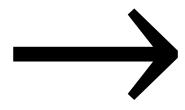
Plus/Minus



Used to show that an expression can take both a positive value <u>and</u> a negative value.



#### Tends towards



Abbreviation used to show the limit an expression reaches