Derivative of a Function

Definition -

Process of calculating a derivative is called differentiation.

To indicate the value of a derivative a specified number x= a

What can we learn from the graph of y = f'(x)



$$\frac{d}{dx}(mx+b) =$$

A function has a derivative at a point iff
When a function does not have a derivative at a point
Theorem –
Proof If $h \neq 0$ then