## DIFFERENTIATION

The calculator can differentiate at a value of x only i.e. differentiate at a point


Use the calculator in RUN mode.
Entry by: OPTN key then F4 key


The first derivative $d / d x$, used for finding the slope of a graph at a given point. The second derivative $d^{2} / d x^{2}$, used for finding the concavity of a graph at a given point.

## Example 1:

Find the derivative of $y=x^{3}+2 x^{2}-3 x+5$ at $x=2$
Pressing the F2 key brings up the $\mathrm{d} / \mathrm{dx}$ function
Type in the equation to be differentiated
Press EXE to get the value.


## Example 2:

The second derivative $\mathrm{d}^{2} / \mathrm{dx} \mathrm{x}^{2}$
Find the second derivative of $y=x^{3}+2 x^{2}-3 x+5$ at $x=2$
Pressing the F3 key brings up the $\mathrm{d} 2 / \mathrm{dx} 2$ function
Type in the equation to be differentiated twice Press EXE to get the value.


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