GRADE 12
Calculus 2- Differential Rules
WEBSITE NOTES
TOPIC:

- Rules of differentiation.


When we find the derivative of a function, we say we differentiate the function.

Do the Following from your Textbook

## Page 155 Exercise 6

## 1, 2, 3, 15

$\lim _{x \rightarrow 0} \frac{x^{2}-2 x}{x}$
In mathematical language is:
THE LIMIT OF $\frac{x^{2}-2 x}{x}$ AS $\times$ TENDS TO (MOVES TO) 0

Limit Example
$\lim _{x \rightarrow 0} \frac{x^{2}-2 x}{x}$


Substitute the value that the variable moves towards. $\lim _{x \rightarrow 0}$
Note that the $\lim _{x \rightarrow 0}$ is no longer part of the expression when we substitute in.

## LIMITS

Try the following exercise Page 143 Exercise 1. Do it as example above. Do not worry about drawing the table as indicated in Exercise.
B, C, D, E, F, G

