

## Mathematics – Grade 12 Notes

### Calculus – Gradients and Derivatives

#### Content:

##### Gradients and Derivatives:

- 1.1 Important Definitions and Notes for Gradients
- 1.2 Important Definitions and Notes for Average Gradients
- 1.3 Gradient from First Principles
- 1.4 Rules for Differentiation

#### 1.1 Important Definitions and Notes for Gradients

- **Gradient/Slope** – The gradient or slope of a function indicates the rate at which  $y$  changes as  $x$  changes. Furthermore, it indicates the “steepness” (inclination) of the graph compared with the  $x$ -axis.
- **Important Notations:**
  - The gradient of a graph is often symbolised by  $m$  or  $a$ .
  - The change in a variable is symbolised by  $\Delta$ .
    - Thus, the gradient is equal to the change in  $y$  over the change in  $x$  ( $\frac{\Delta y}{\Delta x}$ ).
- The straight line (linear) graph is the only graph that has a constant gradient. In other words, the gradient does not change. At every point along the graph, the gradient is the same.



$$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

The gradient is found by subtracting the two  $y$ -values from each other and then dividing that by the subtraction of the two  $x$ -values. But it is very important to keep the same order when subtracting. As seen above it is point 1 ( $x_1, y_1$ ) that is subtracted from point 2 ( $x_2, y_2$ ).

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