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Chapter 2

Differentiation

2.1 Definition

Definition 2.1.1. Let f be real-valued function...

f is differentiable at c if" $\lim_{x \rightarrow c} \frac{f(x)-f(c)}{x-c}$

2.1.1 Formula $f'(c)$

$$f'(c) = \lim_{x \rightarrow c} \frac{f(x)-f(c)}{x-c}$$

2.2 How to insert image

To insert image JPEG or Png are as follows

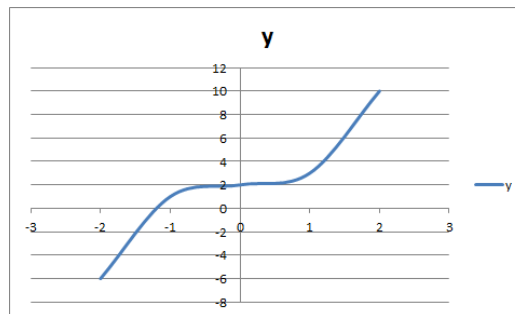
- open image
- Click Print screens
- open Paint
- Click Ctrl+V
- Click crop



Figure 2.1: Ini gambar saya

- save

2.3 Insert Graph from Excel

Figure 2.2: Graph $y = x^3 + 2$

2.4 How to create matrix

```
\begin{cases}{ccc}
4&7&3\\
5&7&5
\end{cases}
```

$$A = \begin{pmatrix} 4 & 7 & 3 \\ 5 & 7 & 5 \\ 1 & 2 & 3 \end{pmatrix}$$

2.5 Piecewise function

$$f(x) = \begin{cases} 1, & 0 < x < 2 \\ x, & 2 \leq x < 4 \\ x^3 + 1, & x \geq 4 \end{cases}$$

2.6 How to include Bibliography automatically