

## CHAPTER 5

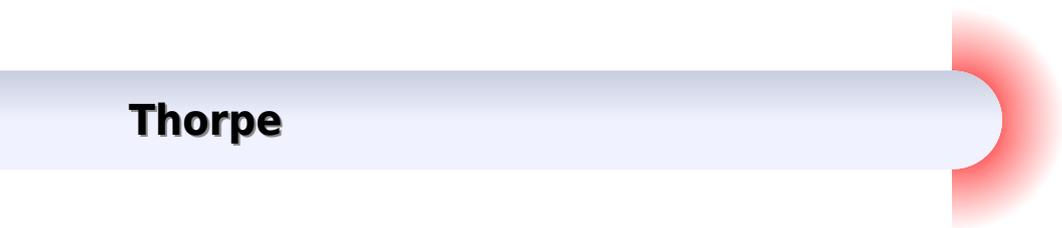
# CONTINUITY AND DIFFERENTIATION

### POINTS TO REMEMBER

- A function  $f(x)$  is said to be continuous at  $x = c$  iff  $\lim_{x \rightarrow c} f(x) = f(c)$   
i.e.,  $\lim_{x \rightarrow c^-} f(x) = \lim_{x \rightarrow c^+} f(x) = f(c)$
- $f(x)$  is continuous in  $(a, b)$  iff it is continuous at  $x = c \forall c \in (a, b)$ .
- $f(x)$  is continuous in  $[a, b]$  iff
  - (i)  $f(x)$  is continuous in  $(a, b)$
  - (ii)  $\lim_{x \rightarrow a^+} f(x) = f(a)$ ,
  - (iii)  $\lim_{x \rightarrow b^-} f(x) = f(b)$
- Trigonometric functions are continuous in their respective domains.
- Every polynomial function is continuous on  $\mathbb{R}$ .
- If  $f(x)$  and  $g(x)$  are two continuous functions and  $c \in \mathbb{R}$  then at  $x = a$ 
  - (i)  $f(x) \pm g(x)$  are also continuous functions at  $x = a$ .
  - (ii)  $g(x) \cdot f(x)$ ,  $f(x) + c$ ,  $cf(x)$ ,  $|f(x)|$  are also continuous at  $x = a$ .
  - (iii)  $\frac{f(x)}{g(x)}$  is continuous at  $x = a$  provided  $g(a) \neq 0$ .
- $f(x)$  is derivable at  $x = c$  in its domain iff

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