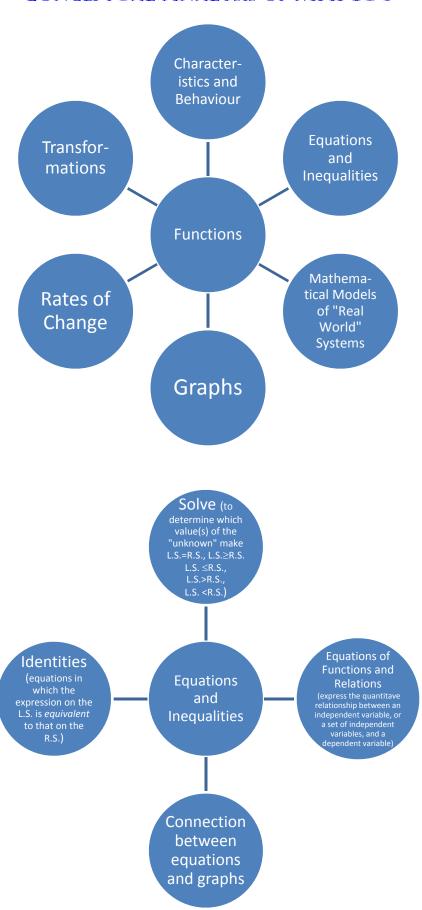
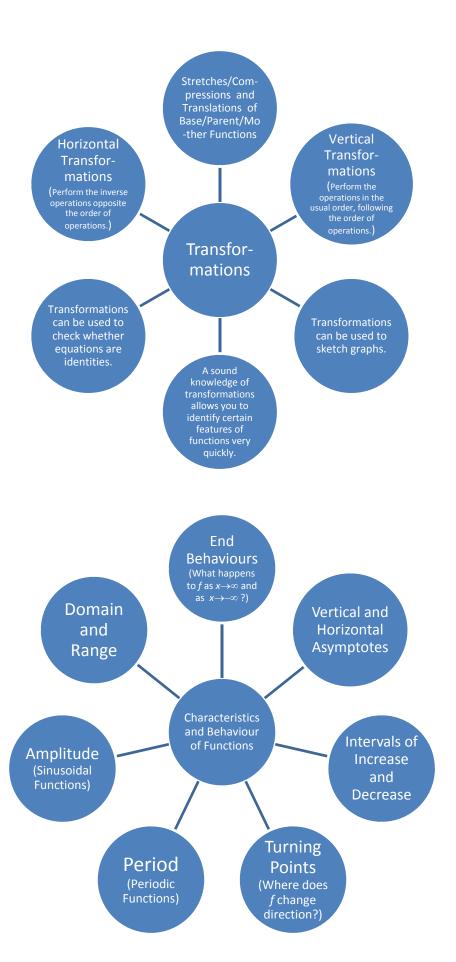
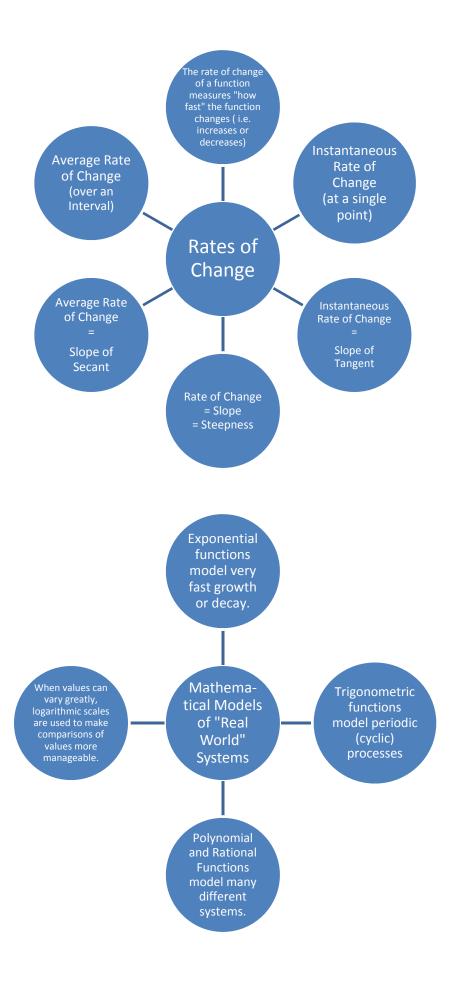
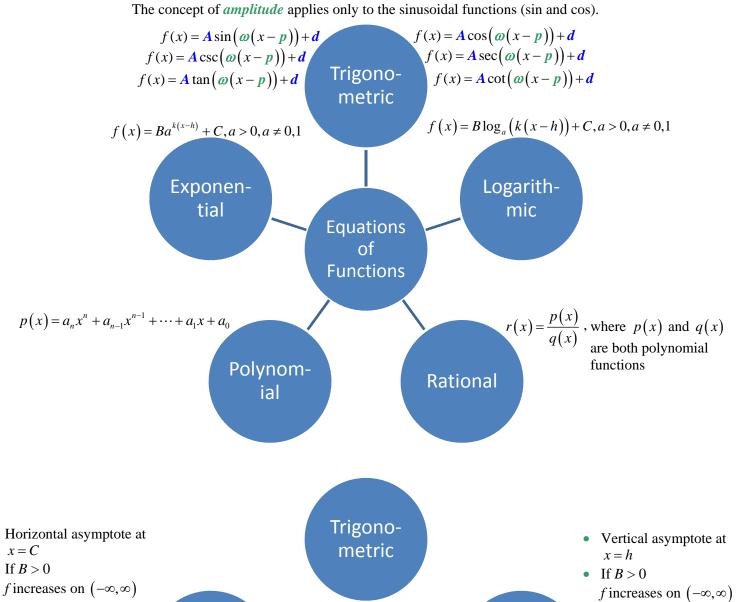
## CONCEPTUAL ANALYSIS OF MHF4UO

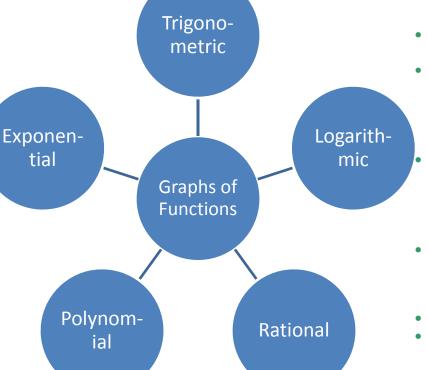








- x = C
- If B > 0f increases on  $(-\infty, \infty)$ As  $x \to \infty$ ,  $f(x) \to \infty$ As  $x \to -\infty$ ,  $f(x) \to C$
- If *B* < 0 f decreases on  $(-\infty, \infty)$ As  $x \to \infty$ ,  $f(x) \to C$ As  $x \to -\infty$ ,  $f(x) \to \infty$
- As x increases, the rate of change of f increases (i.e. f is *concave up* everywhere)
- No turning points
- No points of inflection



- - As  $x \to \infty$ ,  $f(x) \to \infty$
- As  $x \to h$ ,  $f(x) \to -\infty$
- If B < 0
  - f decreases on  $(-\infty, \infty)$
  - As  $x \to \infty$ ,  $f(x) \to -\infty$
  - As  $x \to h$ ,  $f(x) \to \infty$
- As x increases, the rate of change of f decreases (i.e. f is concave down everywhere)
- No turning points
- No points of inflection