# Nelson Advanced Functions 12 – Study Sheet

#### Absolute Maximum / Minimum (p. 131)

These are the highest and lowest values a function reaches over its entire domain.

- Absolute Maximum: The greatest y-value on the graph.
- Absolute Minimum: The smallest v-value on the graph.

Example:  $f(x) = -x^2 + 4$  — Vertex at (0, 4); Absolute maximum = 4; No absolute minimum.

#### Absolute Value (p. 73)

The distance a number is from 0 on the number line. Always non-negative.

Definition:

 $|\mathbf{x}| = \mathbf{x} \text{ if } \mathbf{x} \ge 0; \ |\mathbf{x}| = -\mathbf{x} \text{ if } \mathbf{x} < 0$ 

Example: |5| = 5, |-3| = 3

#### Absolute Value Functions (pp. 14-17, 25, 53)

Functions involving absolute value expressions. Basic form: f(x) = |x| (V-shaped graph)

Example: f(x) = |x - 2| + 1 — Vertex at (2, 1), opens upward.

#### Asymptotes (pp. 20, 25)

Lines that a graph approaches but never touches.

- Vertical: often from division by zero.
- Horizontal/oblique: describe end behaviour.

Example: f(x) = 1/x - Vertical: x = 0: Horizontal: y = 0

#### Characteristics of Functions (p. 26)

Features include domain, range, intercepts, symmetry, increasing/decreasing intervals, and discontinuities.

Example:  $f(x) = x^2$  — Domain: all reals; Range:  $y \ge 0$ ; Symmetry: even

#### Discontinuity (p. 25)

Points where the graph jumps, breaks, or has holes.

Example:  $f(x) = (x^2 - 1)/(x - 1)$  simplifies to x + 1, but has a hole at x = 1 (removable discontinuity).

#### Domain (pp. 15, 19, 25, 27, 30)

All possible input (x) values for which the function is defined.

Examples:

- $f(x) = \sqrt{(x-3)}$  Domain: x ≥ 3
- $-f(x) = 1/x Domain: x \neq 0$

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