

Instructional Flow – Unit 1 – Equations and Functions

2.1 Functions and Their Graphs

- definitions, functions, and relations
- domain and range
- function notation



2.7 Piecewise Functions

- properties
- graphs
- step function
- applications



2.8 Absolute Value Functions

- representation as a piecewise function
- properties
- graphs
- applications



7.3 Function Operations

- addition, subtraction, multiplication, and division
- composition of functions
- *domain of composite functions*



7.4 Inverse Functions

- properties
- one-to-one functions
- verification of inverse functions
- representation of inverse functions and relations
- *domain and range of functions and their inverse functions*
- applications



Appendix 1 Transformations of Functions

- parent functions
- translations, dilations, and reflections
- applications