Pre-Calculus

Chapter 7: Properties of Elementary Functions

1. **Section 7-1**: Shapes of Function Graphs

**Learner Outcome**: Discover patterns in linear, quadratic, power, and exponential function graphs.

**Read**: P.267-269

**Assignment**: P.269 1-4

1. **Section 7-2**: Identifying Functions from Graphical Patterns

**Learner Outcome:** Given the graph of a function, identify the type of function and find the equation algebraically.

**Read**: P.270-277

**Assignment**: P.277 Q1-Q10, 1-23 odd **#9 or #17**

1. **Section 7-3**: Identifying Functions from Numerical Patterns

**Learner Outcome**: Given a set of ordered pairs, identify the type of function that they fit.

**Read**: P.279-286

**Assignment**: P.286 Q1-Q10, 3-36 multiples of 3 **#15 or #27**

1. **Section 7-4**: Logarithms: Definitions, Properties, and Equations

**Learner Outcome**: Learn the definition and properties of logarithms, and use logarithms to find algebraic solutions of exponential and logarithmic equations.

**Read**: P.290-298

**Assignment:** P.298 Q1-Q10, 1-61 every other odd **#33 or #49**

1. **Quiz 7.1 – 7.4**
2. **Section 7-5**: Logarithmic Functions

**Learner Outcome**: Show that logarithmic functions have the multiply-add property, and find particular equations by algebra

**Read**: P.300-303

**Assignment**: P.304 Q10-Q10, 1-13odd **#1**

1. **Section 7-6:** Logistic Functions for Restrained Growth

**Learner Outcome**: Fit a logistic function to data for restrained growth.

**Read**: P.307-310

**Assignment:** P.311 Q1-Q10, 1-7 odd **#5**

1. **Chapter 7 Review**

**Assignment**: P.319 T1-T27

1. **Chapter 7 Test**