Pre-Calculus 30

Chapter 2 Review

Base Radical Function: $y = \sqrt{x}$ has the following characteristics:

- left endpoint at (0, 0)
- no right endpoint
- shape of half a parabola

Graph $y = a\sqrt{b(x-h)} + k$ by transforming $y = \sqrt{x}$ using the parameters a, b, h, and k.

Key values to consider when graphing $y = \sqrt{x}$ and $y = \sqrt{f(x)}$ are f(x) = 0 and f(x) = 1. (These are invariant points.)

Domain of $y = \sqrt{f(x)}$: all values in the domain of f(x) for which $f(x) \ge 0$ is defined

Range of $y = \sqrt{f(x)}$: the square roots of all values in the range of f(x) for which f(x) is defined

Solving Radical Equations algebraically

Solutions/Roots of Radical Equations are the x-intercepts of the graphs of the corresponding radical function.

Assignment: Page 99 #2 – 5, 7 – 10ab, 12, 13a, 16 (algebraic only)