## 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 $\mathrm{f}(\mathrm{x}) \geq 0$ 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 $99 \# 2-5,7-10 \mathrm{ab}, 12$, 13a, 16 (algebraic only)

