


I. Square Roots (pp.502-503):

1. If “ x ” is any number, then the notation \sqrt{x} represents the “square root”
2. If $x = n^2$, then $n = \sqrt{x}$
3. $(\sqrt{x})^2 = \underline{\hspace{2cm}}$
4. $\sqrt{x^2} = \underline{\hspace{2cm}}$
5. Examples (p.511): Exercises #4,6,10,16,18

II. Square Root function (pp.503-504):

1. Graph of $f(x) = \sqrt{x}$  see Figure 7.1
2. $D = \{x \mid x \geq 0\}$
3. Domain of $\sqrt{g(x)}$ is $\{x \mid g(x) \geq 0\}$
4. Examples (p.511): Exercises #22,28,32

III. More about \sqrt{x}

1. $\sqrt{\quad}$ symbol is the radical sign, “ x ” is the “radicand”
2. If $x \leq 0$, then...
 - a. \sqrt{x} is not a real #
 - b. $\sqrt{x^2} = |x|$
3. Examples (p.512): Exercises #36,38,42,44

HW: pp.511-513 / Exercises #1-45(odd)

Read pp.515-521 (section 7.2)