

## Assignment:

Find the domain and range of the following functions

$$(i) f(x) = \sqrt{x - 4}$$

$$(ii) f(x) = \sqrt{x} - 3$$

$$(iii) f(x) = \sqrt{x + 1}$$

Ans) i) Domain:  $[4, \infty)$ ,  $\{x | x \geq 4\}$

Range:  $[0, \infty)$ ,  $\{y | y \geq 0\}$

ii) Domain:  $[3, \infty)$ ,  $\{x | x \geq 3\}$

Range:  $[0, \infty)$ ,  $\{y | y \geq 0\}$

iii) Domain:  $[-1, \infty)$ ,  $\{x | x \geq -1\}$

Range:  $[0, \infty)$ ,  $\{y | y \geq 0\}$