

Q. 2 Let D be the domain of the real valued function f defined by
 $f(x) = \sqrt{25 - x^2}$. Then, write D .

Sol. Given function is, $f(x) = \sqrt{25 - x^2}$

For real valued of $f(x)$ $25 - x^2 \geq 0$

$$x^2 \leq 25$$

$$-5 \leq x \leq + 5$$

$$\therefore D = [-5, 5]$$