

Q17. Find the domain of each of the following functions given by:

$$(i) f(x) = \frac{1}{\sqrt{1 - \cos x}} \quad (ii) f(x) = \frac{1}{\sqrt{x + |x|}} \quad (iii) f(x) = x|x|$$

$$(iv) f(x) = \frac{x^3 - x + 3}{x^2 - 1} \quad (v) f(x) = \frac{3x}{28 - x}$$

Sol. (i) Given that: $f(x) = \frac{1}{\sqrt{1 - \cos x}}$

We know that $-1 \leq \cos x \leq 1$

$$\Rightarrow 1 \geq -\cos x \geq -1$$

$$\Rightarrow 1 + 1 \geq 1 - \cos x \geq -1 + 1$$

$$\Rightarrow 2 \geq 1 - \cos x \geq 0$$

$$\Rightarrow 0 \leq 1 - \cos x \leq 2$$

For real value of domain

$$1 - \cos x \neq 0 \Rightarrow \cos x \neq 1$$

$$\Rightarrow x \neq 2n\pi \quad \forall n \in \mathbb{Z}$$

Hence, the domain of $f = \mathbb{R} - \{2n\pi, n \in \mathbb{Z}\}$

(ii) Given that: $f(x) = \frac{1}{\sqrt{x + |x|}}$

$$\therefore x + |x| = x + x = 2x \text{ if } x \geq 0$$

$$\text{and } x + |x| = x - x = 0 \text{ if } x < 0$$

So far $x < 0$, f is not defined.

Hence, the domain $f = \mathbb{R}^+$.

(iii) Given that: $f(x) = x|x|$

It is clear that $f(x)$ is defined for all $x \in \mathbb{R}$.

Hence, the domain of $f = \mathbb{R}$.

(iv) Given that: $f(x) = \frac{x^3 - x + 3}{x^2 - 1}$

Here, $f(x)$ is only defined if $x^2 - 1 \neq 0$

$$(x - 1)(x + 1) \neq 0$$

$$\therefore x \neq 1, x \neq -1$$

Hence, the domain of $f = \mathbb{R} - \{-1, 1\}$

(v) Given that: $f(x) = \frac{3x}{28 - x}$

Here, $f(x)$ is only defined if $28 - x \neq 0 \Rightarrow x \neq 28$

Hence, the domain $= \mathbb{R} - \{28\}$.

Q18. Find the range of the following functions given by

$$(i) f(x) = \frac{3}{2 - x^2}$$

$$(ii) f(x) = 1 - |x - 2|$$

$$(iii) f(x) = |x - 3|$$

$$(iv) f(x) = 1 + 3 \cos 2x$$

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