



Quiz 1:

Q1) True or false

1) Composition is an operation on function ()

2) $f(x) = x^2 + 2x$ then $f(2) = 10$ ()

3) The statement is correct for all real value of x is $\sqrt{x^2} = x$ ()

4) Domain $f(x) = x + 9$ is $(-\infty, +\infty)$ ()

Q2) Choose the Correct answer g

1) function $f(x) = x^{20}$ is

a) even function b) odd function c) neither

2) $f(x) = \sqrt{16 - x^2}$ and $g(x) = \sqrt{x - 2}$ then $f \circ g =$

a) $\sqrt{18 - x}$ b) $18 + x^2$ c) $x - 18$

Q3) Determine whether the function $f(x) = |x|$ is one to one

Q4) find the domain and range of $f(x) = \sqrt{x+1} + 4$

Domain

$$x+1 \geq 0$$

$$x \geq -1$$

$$D = [-1, +\infty)$$

Range:

$$x+1 \geq 0$$

$$\sqrt{x+1} \geq 0$$

$$\sqrt{x+1} + 4 \geq 4$$

$$R = [4, +\infty)$$