



Quiz 1 :

Q1) Fill in the blank :

1) The domain of $f(x) = \frac{1}{x-7}$

2) range of $f(x) = 3 + \sqrt{x}$

3) $f(x) = \begin{cases} \frac{1}{x} & x > 3 \\ 2x & x \leq 3 \end{cases}$ then $f(\pi)$ is equal to

Q4) $f(x) = x + 5$, $g(x) = \sqrt{x}$

a) $(g \circ f)(x)$

b) $f \circ g$

Q5) express f as Composition of two functions

$$f = g \circ h, f(x) = \sqrt{x-2}$$

Q6) even or odd function

$$f(x) = x + 3$$

Q7) True or false :

1) let $f(x) = \sqrt{x+1} + 4$ then $f(8) = 6$ ()

2) $f(x) = 3x + 5$, $g(x) = x - 3$ then $f+g = 4x+2$ ()

3) if $f(x) = x^7$ then $f(x)$ is odd function ()

4) $f(x)$ and $g(x)$ are discontinuous at $x = a$
then so $f(x) \cdot g(x)$ ()

5) $\lim_{x \rightarrow a} f(x) = +\infty$ then $f(x)$ decreases function ()