

KCET-2015-Set-A-1 Questions – Mathematics

1.
$$f(x) = \frac{1}{2} - \tan(\frac{\pi x}{2})$$
 $-1 < x < 1$ and $g(x) = \sqrt{(3 + 4x - 4x^2)}$.

Find the domain of (f + g).

(1)
$$\left[-\frac{1}{2},1\right]$$

(2)
$$\left(-\frac{1}{2},1\right)$$

(3)
$$\left| \frac{-1}{2}, \frac{3}{2} \right|$$

$$(4)(-1,1)$$

- Write the set builder form A = {-1,1}
 - (1) A = {x: x is a real number}
 - (2) A = {x:x is an integer}
 - (3) $A = \{x : x \text{ is a root of equation } x^2 = 1\}$
 - (4) $A = \{x : x \text{ is a root of equation } x^2 + 1 = 0\}$

Mathematics N1 Question Paper 2014

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