ASSIGNMENT

all questions are complusory

MATHEMATICS(Class XII)

1. If $f : R \rightarrow R$, $g : R \rightarrow R$ and $h : R \rightarrow R$ is such that $f(x) = x^2$, g(x) = tanx and h(x) = logx, then the value of [ho(gof)](x), if $x = \pi \sqrt{2}$ will be

2. If sin-1(x2 – 7x + 12) = $n\pi$, $\forall n \in I$, then x =

3. Total number of possible matrices of order 3 × 3 with each entry 2 or 0 is

4. The value of c in Mean value theorem for the function $f(x) = x(x - 2), x \in [1, 2]$ is

5. Evaluate: ∫dxx2

6.If AB × AC = $2i^{-4}j^{+4}k^{-1}$, then the are of Δ ABC is

7. The probability of a man hitting a target is 14. How many times must he fire so that the probability of his hitting the target at least once is greater than 23?

8. A die is thrown and card is selected a random from a deck of 52 playing cards. The probability of gettingan even number on the die and a spade card is

9. The maximum value of f = 4x + 3y subject to constraints $x \ge 0$, $y \ge 0$, $2x + 3y \le 18$; $x + y \ge 10$ is

10.The angle between the planes $r(i^{+}2j^{+}k^{+})=4$ and $r(-i^{+}j^{+}2k^{+})=9$ is