

## CLASS XII GUESS PAPER MATHS

Q.1 If  $\tan^{-1}\frac{x-3}{x-4}$  +tan- $1\frac{x+3}{x+4}$  = $\pi/4$  find the value of x

Q.2 (i) If  $x^{x}+y^{x}=a^{b}$  then find dy/dx (ii) Differentiate  $x^{sinx}+(sinx)^{cosx}$  with respect to x.

Q.3 Show that the points A, B, C whose position vector are respectively 2i - j + k, I - 3j- 5k and 3i - 4j- 4k are the vertices of right angled triangle. Hence find area of triangle.

Q.4 writes the position vector of the point which divides the join of point s 3  $\vec{a} - 2\vec{b}$  and  $2\vec{a} + 3\vec{b}$  in the ration 2:1

Q.5 write the number of vectors of unit length perpendicular to both the vectors  $\vec{a} = 2i + j + 2k$ ,  $\vec{b} = j + k$ 

Q.6 A bag contains 4 balls. Two balls are drawn at random without replacement and are found to be white. What is the probability all balls in the bag are white.

Q.7 Evaluate  $\int_{0}^{3/2} |x\cos \pi x| dx$ 

Q.8 Five bad oranges are accidently mixed with 20 good ones. If 4 are drawn one by one with replacement then find probability distribution of number of bad oranges drawn and hence find mean and variance of distribution.

Q.9 If x=asin2t.(1+cos2t) and y=bcos2t(1-cos2t), find dy/dx at t=  $\pi/4$ 

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Q.10 Evaluate  $\int_0^{\pi/2} \frac{\sin^2 x}{\sin x + \cos x} dx$ 

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