

- (iii) If the lines  $\frac{x-1}{2} = \frac{y+1}{3} = \frac{z-1}{4}$  and  $\frac{x-3}{1} = \frac{y-k}{2} = \frac{z}{1}$  intersect each other, then find the value of  $k$ . (3)

**Q. 3. (B) Attempt any TWO of the following:** [8]

- (i) Parametric form of the equation of the plane is  $\vec{r} = (2\hat{i} + \hat{k}) + \lambda\hat{i} + \mu(\hat{i} + 2\hat{j} + \hat{k})$ .  $\lambda$  and  $\mu$  are parameters. Find normal to the plane and hence equation of the plane in normal form. Write its Cartesian form. (4)
- (ii) If the angle between the lines represented by  $ax^2 + 2hxy + by^2 = 0$  is equal to the angle between the lines  $2x^2 - 5xy + 3y^2 = 0$ , then show that  $100(h^2 - ab) = (a + b)^2$ . (4)
- (iii) Find the general solution of :  $\sin x \tan x = \tan x - \sin x + 1$ . (4)

## SECTION - II

**Q. 4. (A) Select and write the most appropriate answer from the given alternatives in each of the following sub-questions:** [6]

- (i) The differential equation of the family of curves  $y = c_1 e^x + c_2 e^{-x}$  is \_\_\_\_\_.  
 (a)  $\frac{d^2 y}{dx^2} + y = 0$  (b)  $\frac{d^2 y}{dx^2} - y = 0$  (c)  $\frac{d^2 y}{dx^2} + 1 = 0$  (d)  $\frac{d^2 y}{dx^2} - 1 = 0$  (2)
- (ii) If  $X$  is a random variable with probability mass function  

$$P(x) = \begin{cases} kx, & \text{for } x = 1, 2, 3 \\ 0, & \text{otherwise} \end{cases}$$
 then,  $k =$  \_\_\_\_\_.  
 (a)  $\frac{1}{5}$  (b)  $\frac{1}{4}$  (c)  $\frac{1}{6}$  (d)  $\frac{2}{3}$  (2)
- (iii) If  $\sec\left(\frac{x+y}{x-y}\right) = a^2$ , then  $\frac{d^2 y}{dx^2} =$  \_\_\_\_\_.  
 (a)  $y$  (b)  $x$  (c)  $\frac{y}{x}$  (d)  $0$  (2)

**Q. 4. (B) Attempt any THREE of the following:** [6]

- (i) If  $y = \sin^{-1}(3x) + \sec^{-1}\left(\frac{1}{3x}\right)$ , find  $\frac{dy}{dx}$ . (2)
- (ii) Evaluate :  $\int x \log x \, dx$ . (2)
- (iii) If  $\int_0^h \frac{1}{2+8x^2} \, dx = \frac{\pi}{16}$ , then find the value of  $h$ . (2)
- (iv) The probability that a certain kind of component will survive a check test is 0.5. Find the probability that exactly two of the next four components tested will survive. (2)
- (v) Find the area of the region bounded by the curve  $y = \sin x$ , the lines  $x = -\frac{\pi}{2}$ ,  $x = \frac{\pi}{2}$  and X-axis. (2)

# Maths 9713 Oct 2014 Question 4

**Stuart Ritchie**

A red circular graphic with a gradient, appearing as a semi-circle or a stylized arrow pointing to the right, located to the right of the name bar.

#### **Maths 9713 Oct 2014 Question 4:**

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