5. a. Find 
$$\frac{dy}{dx}$$
 when  $x = 2at$  and  $y = 2at^2$ 

(b) Evaluate: 
$$\int \sin 2x \cdot \sin 3x \, dx$$

Determine the interval in which the function 
$$f(x) = \frac{1}{2}x^2 - x$$
 is increasing or decreasing.

$$5\times2\times4=40$$

6. a. For any non-empty subsets A,B,C of universal set U, prove that: 
$$A-(B\cup C)=(A-B)\cap (A-C)$$

Define absolute value of a real number. Also prove that 
$$|x|-|y| \le |x+y|, \forall x, y \in \Re$$

b. Sketch the graph of 
$$f(x) = (x-1)^3$$
 indicating its characteristics.

7. a. Solve for general values of 
$$\theta$$
:

$$\sin\theta + \sin 2\theta + \sin 3\theta = \cos\theta + \cos 2\theta + \cos 3\theta$$

If 
$$a=2$$
,  $b=\sqrt{6}$  and  $c=\sqrt{3}-1$ , find the angles of the triangle ABC.

Brove that: 
$$\begin{vmatrix} a^2+1 & ab & ac \\ ab & b^2+1 & bc \\ ac & bc & c^2+1 \end{vmatrix} = 1 + a^2 + b^2 + c^2$$

$$x-y=0$$
,  $2x-y+4z=18$ ,  $-3x+z+2=0$ 

b. Find the equation whose roots are reciprocal of the roots of 
$$x^2 - x + I = 0$$

(9. a. Prove that the circles 
$$x^2 + y^2 + 2ax + c^2 = 0$$
 and  $x^2 + y^2 + 2by + c^2 = 0$ 

touch each other if 
$$\frac{1}{a^2} + \frac{1}{b^2} = \frac{1}{c^2}$$

# **Maths Paper 3 Grade 11**

Jiyuan Zhang

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