

**MATH HL**  
**TEST – (PAPER 1: WITHOUT GDC)**

**VECTORS**

*by Christos Nikolaidis*

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Marks: \_\_\_\_/50

Grade: \_\_\_\_\_

**Questions**

1. *[maximum mark: 7]*

Let  $u = \begin{pmatrix} a \\ 2 \\ b+2 \end{pmatrix}$  and  $v = \begin{pmatrix} -9 \\ 3 \\ b \end{pmatrix}$

Find the values of scalars  $a$  and  $b$  in each of the following cases

(a)  $u$  is perpendicular to  $v$  and  $a = b$

*[4 marks]*

(b)  $u$  is parallel to  $v$

*[3 marks]*

2. *[maximum mark: 5]*

Given any two non-zero vectors  $a$  and  $b$ , show that

$$|a \times b|^2 = |a|^2 |b|^2 - (a \cdot b)^2.$$

3. *[maximum mark: 6]*

The vector equation of line  $l$  is given as  $\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 1 \\ 3 \\ 6 \end{pmatrix} + \lambda \begin{pmatrix} -1 \\ 2 \\ -1 \end{pmatrix}$ .

Find the Cartesian equation of the plane containing line  $l$  and the point  $A(4, -2, 5)$ .

# Grade 1mathematic P2 2014

**IM Harris**



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