



MODULE	CLASSICAL MECHANICS
RE-TEST	MPHA021
MARKS	1
TIME (Duration)	75
DATE	2 HOURS
EXAMINER	07 APRIL 2022
	MR LT SELEPE

**Question 1**

1.1. In terms of the standard basis set  $\{i, j, k\}$ ,  $\alpha = 3i - 5j - 7k$ ,  $\mathbf{b} = 2i + 4j + 6k$  and  $\mathbf{c} = 1i - 3j + 5k$

(i) Find  $|\alpha - \mathbf{b}|^2$  (4)

(ii) Find  $\alpha \times \mathbf{b}$ ,  $\mathbf{b} \times \mathbf{c}$  and  $(\alpha \times \mathbf{b}) \times (\mathbf{b} \times \mathbf{c})$  (9)

1.2. If  $\mathbf{v} = 2i - j + 2k$  and  $\alpha = 4i - 3k$ ,

find the component of  $\mathbf{v}$  in the direction of  $\alpha$ . (5)

1.3. A particle  $P$  moves along the  $x$ -axis with its displacement at time  $t$  given by  $x = 6t^2 - t^3 + 1$ , where  $x$  is measured in metres and  $t$  in seconds. Find the velocity and acceleration of  $P$  at time  $t$ . Find the times at which  $P$  is at rest and find its position at these times. (8)

**Question 2**

2.1. Consider a box of mass  $m$  sliding down a ramp of mass  $M$  (Fig. 1). The wedge moves without friction on the horizontal plane. The box also slides without friction on the wedge. Find the acceleration of the box and the wedge using Lagrange's equations.

# 2013 Mechanics Past Paper

**Terry C. Jones**

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