



A level Applied Paper 3B Mechanics Practice Paper M13 MARK SCHEME

Question 1

Question Number	Scheme	Mark
(a)	$240 = \frac{1}{2}(u + 34)10$ $u = 14$	M1 A1 A1 (3)
(b)	$34 = 14 + 10a \Rightarrow a = 2$ $120 = 14t + \frac{1}{2} \times 2 \times t^2$ $t^2 + 14t - 120 = 0$ Solving, $t = -20$ or 6 $t = 6$	M1 A1 M1 A1 DM1 A1
	OR $34 = 14 + 10a \Rightarrow a = 2$ $v^2 = 14^2 + 2 \times 2 \times 120 \Rightarrow v = 26$ AND $26 = 14 + 2t$ $t = 6$	M1 A1 M1 A1 DM1 A1
		(6)
		[9]
Notes for Question		
Q (a)	First M1 for a complete method to produce an equation in u only. First A1 for a correct equation. ($u^2 - 48u + 476 = 0$ oe is possible). Second A1 for $u = 14$.	
Q (b)	EITHER First M1 for an equation in a only. (M0 if $v = 34$ when $s = 120$ is used) First A1 for $a = 2$. (This may have been found in part (a)) Second M1 for a 3-term quadratic equation in t only, allow sign errors (must have found a value of a . (M0 if $v = 34$ when $s = 120$ is used) Second A1 for a correct equation. Third M1 dependent on previous M1 for solving for t . Third A1 for $t = 6$ OR First M1 for an equation in a only. First A1 for $a = 2$. (This may have been found in part (a)) Second M1 for a complete method to obtain an equation in t only, allow sign errors. (must have found a value of a) Second A1 for a correct equation. Third M1 dependent on previous M1 for solving for t . Third A1 for $t = 6$	

May 2013 Mechanics 1 Mark Scheme

Daniel F McAuley



May 2013 Mechanics 1 Mark Scheme:

The book delves into May 2013 Mechanics 1 Mark Scheme. May 2013 Mechanics 1 Mark Scheme is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into May 2013 Mechanics 1 Mark Scheme, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to May 2013 Mechanics 1 Mark Scheme
 - Chapter 2: Essential Elements of May 2013 Mechanics 1 Mark Scheme
 - Chapter 3: May 2013 Mechanics 1 Mark Scheme in Everyday Life
 - Chapter 4: May 2013 Mechanics 1 Mark Scheme in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of May 2013 Mechanics 1 Mark Scheme. The first chapter will explore what May 2013 Mechanics 1 Mark Scheme is, why May 2013 Mechanics 1 Mark Scheme is vital, and how to effectively learn about May 2013 Mechanics 1 Mark Scheme.
 3. In chapter 2, the author will delve into the foundational concepts of May 2013 Mechanics 1 Mark Scheme. This chapter will elucidate the essential principles that need to be understood to grasp May 2013 Mechanics 1 Mark Scheme in its entirety.
 4. In chapter 3, the author will examine the practical applications of May 2013 Mechanics 1 Mark Scheme in daily life. This chapter will showcase real-world examples of how May 2013 Mechanics 1 Mark Scheme can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of May 2013 Mechanics 1 Mark Scheme in specific contexts. The fourth chapter will explore how May 2013 Mechanics 1 Mark Scheme is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about May 2013 Mechanics 1 Mark Scheme. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of May 2013 Mechanics 1 Mark Scheme.

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