

GCSE Mathematics (1MA1) – Foundation Tier Paper 1F

November 2022 student-friendly mark scheme

Please note that this mark scheme is not the one used by examiners for making scripts. It is intended more as a guide to good practice, indicating where marks are given for correct answers. As such, it doesn't show follow-through marks (marks that are awarded despite errors being made) or special cases.

It should also be noted that for many questions, there may be alternative methods of finding correct solutions that are not shown here – they will be covered in the formal mark scheme.

NOTES ON MARKING PRINCIPLES

Guidance on the use of codes within this mark scheme

M1 – method mark. This mark is generally given for an appropriate method in the context of the question. This mark is given for showing your working and may be awarded even if working is incorrect.

P1 – process mark. This mark is generally given for setting up an appropriate process to find a solution in the context of the question.

A1 – accuracy mark. This mark is generally given for a correct answer following correct working.

B1 – working mark. This mark is usually given when working and the answer cannot easily be separated.

C1 – communication mark. This mark is given for explaining your answer or giving a conclusion in context supported by your working.

Some questions require all working to be shown; in such questions, no marks will be given for an answer with no working (even if it is a correct answer).

November 2014 1f Mark Scheme

Karin Nielsen-Saines



November 2014 1f Mark Scheme:

This book delves into November 2014 1f Mark Scheme. November 2014 1f Mark Scheme is a crucial 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 November 2014 1f Mark Scheme, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to November 2014 1f Mark Scheme
 - Chapter 2: Essential Elements of November 2014 1f Mark Scheme
 - Chapter 3: November 2014 1f Mark Scheme in Everyday Life
 - Chapter 4: November 2014 1f Mark Scheme in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of November 2014 1f Mark Scheme. The first chapter will explore what November 2014 1f Mark Scheme is, why November 2014 1f Mark Scheme is vital, and how to effectively learn about November 2014 1f Mark Scheme.
 3. In chapter 2, the author will delve into the foundational concepts of November 2014 1f Mark Scheme. The second chapter will elucidate the essential principles that must be understood to grasp November 2014 1f Mark Scheme in its entirety.
 4. In chapter 3, the author will examine the practical applications of November 2014 1f Mark Scheme in daily life. This chapter will showcase real-world examples of how November 2014 1f Mark Scheme can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of November 2014 1f Mark Scheme in specific contexts. This chapter will explore how November 2014 1f Mark Scheme is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about November 2014 1f Mark Scheme. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of November 2014 1f Mark Scheme.

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yi jarak antara titik berat segmen terhadap titik 0 garis datum dari sumbu y catatan miringkan layar hp bagi pengguna seluler jika persamaan tidak cukup atau tidak nampak titik 0 garis datum saya ambil dari bawah penampang balok

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rumus momen inersia diatas dapat digunakan jika besarnya momen inersia i didalam suatu benda bermassa yg mempunyai titik putar didalam sumbunya $i = m_1 r_1^2 + m_2 r_2^2 + m_3 r_3^2 + \dots + m_n r_n^2$ diketahui i adalah momen inersia kg m^2 m adalah massa kg r adalah jarak kr dari titik poros atau jari jari m

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jan 30 2023 secara matematis rumus momen inersia benda tegar dinyatakan sebagai berikut dengan m_1 massa partikel ke 1 m_2 massa partikel ke 2 m_3 massa partikel ke 3 m_n massa partikel ke n r_1 jarak partikel ke 1 ke sumbu rotasi r_2 jarak partikel ke 2 ke sumbu rotasi r_3 jarak partikel ke 3 ke sumbu rotasi

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nov 24 2017 momen inersia polar yaitu momen inersia terhadap suatu titik perpotongan dua garis lurus atau sumbu dengan kata lain bahwa inersia polar adalah jumlah momen inersia linier terhadap sumbu x dan sumbu y

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jun 17 2022 I m² penjelasan m adalah massa partikel kg r merupakan jarak partikel ke sumbu putar m satuan momen inersia adalah kg m² pada benda pejal besar momen inersia dapat dihitung sebagai distribusi massa benda dikalikan dengan jarak sumbu putar sedangkan untuk rumus momen inersia benda tegar adalah sebagai berikut

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nov 28 2017 jadi momen inersia yang terhubung oleh seutas tali berjarak 50 cm dengan berat 100 gram adalah 0 05 kg m² baca juga contoh hukum newton 3 dan penjelasannya $\Sigma m n r n^2$ rumus 2 rumus 2 digunakan jika terdapat beberapa benda atau partikel yang berotasi terhadap sumbu rotasi contoh soal rumus 2

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besar momen inersia dihitung dengan rumus untuk benda berupa partikel tunggal titik massa I m r² untuk beberapa partikel titik massa $I \Sigma m r^2$

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aug 30 2016 $y_{cy} = 271$ cm ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y hitung momen inersia I_x gabungan dengan persamaan dimana adalah jarak titik berat masing masing penampang tunggal ke titik berat penampang gabungan untuk kasus di atas sehingga untuk sumbu y dimana karena titik berat

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momen inersia terhadap sumbu x y yang melalui titik berat penampang z adalah I_{xz} atau $I_x + I_z + m h^2$ dan I_{yz} atau $I_y + I_z + m h^2$ I_{xz} momen inersia terhadap sumbu x adalah $I_x + I_z + m h^2$ I_{yz} momen inersia terhadap sumbu y adalah $I_y + I_z + m h^2$ I_{xz} momen inersia terhadap sumbu x adalah $I_x + I_z + m h^2$ I_{yz} momen inersia terhadap sumbu y adalah $I_y + I_z + m h^2$

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jun 26 2009 adalah momen inersia terhadap sumbu x tertentu adalah momen inersia terhadap sumbu netral garis berat adalah luas bangun penampang adalah jarak dari titik berat ke sumbu momen inersia yang dicari catatan untuk tinjauan sumbu y tinggal ditukar aja kok x jadi y y jadi x

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membuat titik berat pita menentukan momen terhadap sumbu x mx dan sumbu y my selanjutnya menghitung titik berat tersebut dengan integral 4 untuk menghitung momen inersia langkahnya dimulai dengan membuat pita sejajar dengan garis l sumbu x dan titik berat pita kemudian dibentuk hasil kali luas

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sep 7 2023 x 100 8 2 104 mm 10 4 cm sementara untuk sumbu y karena masing masing elemen siku l100x100x10 posisi titik berat cy nya berjarak sama dari sumbu dasar maka titik berat gabungannya juga akan sama y cy 2 71 cm ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y

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145 contoh soal dan pembahasan1 sebuah partikel bermassa 0 5 gram melakukan gerak melingkar dengan kecepatan sudut tetap 2 rad s 1 jika jari jari lintasan partikel 10 cm maka momentum sudut partikel itu adalah pembahasan momentum sudut partikel l 0 5 x 10 5 kg m2 2 rad s 1 x 10 5 kg m2 s 2

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aug 26 2017 sedangkan bola pejal berjari jari 5 cm dan massa 4 kg jika kedua benda tadi berotasi dengan poros melalui pusatnya maka tentukan perbandingan momen inersia silinder dan bola jawab m s 2kg r s 8 cm 8 10 2 m m b 4kg r b 5 cm 5 10 2 m momen inersia silinder pejal adalah i s 1 2 m s r s 2 1 2 2 8 10 2 2 64 10 4 kg m 2

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besarnya momen inersia suatu benda bergantung terhadap beberapa faktor yaitu massa benda atau partikel geometri benda bentuk letak sumbu putar benda jarak ke sumbu putar benda lengan momen rumus momen inersia besarnya momen inersia i suatu benda bermassa yang memiliki titik putar pada sumbu yang diketahui dirumuskan sebagai berikut

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menentukan titik berat penampang berhubung momen inersia yang diinginkan akan dipergunakan dalam perhitungan lenturan maka momen inersia ini haruslah diperhitungkan terhadap sumbu yang melalui titik berat penampang keterangan luas a mm2 jarak titik berat thd garis bawah y mm a x y mm3 luas total 40 x 60 2400 30 2400 x 30 72000

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dec 1 2009 sekedar pengingat saja untuk persegi momen inersia nya adalah dan lokasi titik beratnya ada pada seperdua lebar dan seperdua tinggi persegi sementara untuk segitiga siku siku momen inersia dan lokasi titik beratnya ada

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menentukan titik berat penampang berhubung momen inersia yang diinginkan akan dipergunakan dalam perhitungan lenturan maka momen inersia ini haruslah diperhitungkan terhadap sumbu yang melalui titik berat penampang keterangan luas a mm2 jarak titik berat thd alas y mm a x y mm3 luas total 40 x 60 2400 30 2400 x 30 72000 luas

