

Grade 12 tasks:

Grade 12 learners must complete 7 formal assessment tasks.

Term 1: an assignment, a project or investigation and a test = **3 SBA tasks**

Term 2: a test and the mid-year examination = **2 SBA tasks**

Term 3: a test and a mid-year examination = **2 SBA tasks**

These exemplars will not deal with the two examinations as we are still waiting for the national examination guidelines. The test for each term may be compiled from the topical assignments.

Term 1

Topical Assignments

Topic 1: Sequences and series

Question 1

- 1.1 Consider the sequence: $6 ; 10 ; 16 ; 24 ; 34 ; \dots$
- 1.1.1 If the sequence behaves consistently, determine the next two terms of the sequence. (2)
- 1.1.2 Calculate a formula for the n^{th} term of the sequence. (5)
- 1.1.3 Use your formula to calculate n if the n^{th} term in the sequence is 1264. (3)
- 1.2 Consider the following sequence: $6, 18, 54, 162, \dots$
- 1.2.1 If the formula for the general term of the sequence is $T_n = ar^{n-1}$, give the value of a and r . (2)
- 1.2.2 Which term of the sequence is equal to 1458? (4)
- Given the geometric series: $5, (3)^2 + 5, (3)^3 + 5, (3)^4 + \dots$
- 1.3.1 Explain why the series converges. (2)
- 1.3.2 Calculate the sum to infinity of the series. (5)
- 1.3.3 Calculate the sum of the first 9 terms of the series, correct to **TWO** decimal places. (4)
- 1.3.4 Use your answers to QUESTION 1.3.2 and QUESTION 1.3.3 to determine $\sum_{n=0}^{\infty} 5.(3)^{n+1}$ (correct to **TWO** decimal places) (2)

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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

menghitung titik berat dan momen inersia penampang balok i - May 19 2023

sep 7 2023 $x 100 \text{ 8 2 104 mm 10 4 cm}$ sementara untuk sumbu y karena masing masing elemen siku $1100 \times 100 \times 10$ 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

titik berat momentum sudut torsi momen inersia pdf scribd - Feb 04 2022

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 $1 \text{ 0 5} \times 10 \text{ 5 kg m}^2 \text{ 2 rad s}^{-1} \times 10 \text{ 5 kg m}^2 \text{ s}^{-2}$

rumus momen inersia rumushitung com - Sep 11 2022

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

momen inersia konsep rumus contoh soal momen inersia - Feb 16 2023

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

fakultas teknik jurusan teknik sipil universitas brawijaya - Mar 17 2023

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 $a \text{ mm}^2$ jarak titik berat thd garis bawah $y \text{ mm}$ $a \times y \text{ mm}^3$ luas total $40 \times 60 \text{ 2400 30 2400} \times 30 \text{ 72000}$

contoh perhitungan momen inersia seputar dunia teknik sipil - May 07 2022

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

fakultas teknik jurusan teknik sipil universitas brawijaya - Dec 14 2022

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 $a \text{ mm}^2$ jarak titik berat thd alas $y \text{ mm}$ $a \times y \text{ mm}^3$ luas total $40 \times 60 \text{ 2400 30 2400} \times 30 \text{ 72000}$ luas