

Subject – Math AI (Standard Level)
Topic – Calculus
Year – May 2021 – Nov 2022
Paper -2
Questions

Question 1

(a) $2(8 \times 4 + 3 \times 4 + 3 \times 8)$
 $= 136 \text{ (cm}^2\text{)}$

M1

A1

[2 marks]

(b) $\sqrt{8^2 + 4^2 + 3^2}$
 (AG $\rightarrow$) 9.43 (cm) (9.4339..., $\sqrt{89}$)

M1

A1

[2 marks]

(c) $-2x + 220 = 0$
 $x = 110$
 110 000 (boxes)

M1

A1

A1

[3 marks]

(d) $P(x) = \int -2x + 220 \, dx$

M1

Note: Award **M1** for evidence of integration.

$P(x) = -x^2 + 220x + c$

A1A1

Note: Award **A1** for either $-x^2$ or $220x$ award **A1** for both correct terms and constant of integration.

$1700 = -(20)^2 + 220(20) + c$

M1

$c = -2300$

$P(x) = -x^2 + 220x - 2300$

A1

[5 marks]

(e) $-x^2 + 220x - 2300 = 0$
 $x = 11.005$
 11 006 (boxes)

M1

A1

A1

[3 marks]

Total [15 marks]

May 20paper Math Sl Answers

Julia Schneider



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5. 1.1 Introduction . Questions and answers on biosimilar ... Sep 27, 2012 — Questions and answers. Questions and answers on biosimilar medicines (similar biological medicinal products). What is a biological medicine? A ... Guidance for Industry guidance document (Questions and Answers on Biosimilar Development and the BPCI Act) and. December 2018 draft guidance document (New and Revised Draft Q&As ... Questions and answers for biological medicinal products 1. How can specification limits be clinically justified for a biosimilar? September 2023. Frequently Asked Questions About Biologic and Biosimilar ... Answer: A biosimilar is a biologic product developed to be highly similar to a previously FDA approved biologic, known as the reference product. A ... Questions and Answers on Biosimilar Development ... Sep 20, 2021 — ... biosimilar and interchangeable products. This final guidance document ... product has the same “strength” as the reference product. FDA ... Biosimilars Frequently Asked Questions What is a biosimilar? · What is a biologic product? · What is the difference between a biosimilar and a generic? · What is Immunogenicity? · What does the approval ... Biosimilars: Questions and Answers on ... Dec 12, 2018 — The Food and Drug Administration (FDA or Agency) is announcing the availability of a final guidance for industry entitled “Questions and ... Biological and biosimilar medicines - What patients should ... answers to a range of questions on biological and biosimilar medicines. The ... Are biosimilar medicines the same as generic medicines? No. A biosimilar ... How Similar Are Biosimilars? What Do Clinicians Need to ... by C Triplitt · 2017 · Cited by 15 — Biosimilars are not the same as generics; they are similar, but not identical, to their reference drug, meaning that they may have small differences that could ... Biosimilar Drugs: Your Questions Answered Is a biosimilar comparable to the original biologic drug? Yes. It is not an ... As manufacturers compete with each other to make similar products at lower ... angular speed control Sep 1, 2022 — Universiti Teknologi Malaysia. 81310 Johor Bahru, Johor. Date. : 1 September ... Figure C.1: Open loop DC motor Speed control with square wave ... SENSORLESS POSITION CONTROL OF DC MOTOR ... Nov 17, 2015 — ... Universiti Teknologi Malaysia, 81310, UTM Johor Bahru, Johor Malaysia ... Speed Control of D.C. Motor Using PI, IP, and Fuzzy Controller. Speed control of dc motor using pid controller - Universiti ... Nov 28, 2012 — Speed control of dc motor using pid controller - Universiti Malaysia ... UNIVERSITI TEKNOLOGI MALAYSIA - Universiti Malaysia Pahang. CHAPTER 1 ... Brushless DC Motor Speed Control Using Single Input ... Abstract: Many Industries are using Brushless Direct Current (BLDC) Motor in various applications for their high torque performance, higher efficiency and low ... Design a Speed

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