

Math 1A03/1ZA3
Last Set of Sample Test Questions

Name: _____
(Last Name) (First Name)

Student Number: _____ Tutorial Number: _____

This test consists of 33 multiple choice questions worth 1 mark each (no part marks).

Marks will not be deducted for wrong answers (i.e., there is no penalty for guessing). You are responsible for ensuring that your copy of the test is complete. Bring any discrepancy to the attention of the invigilator. Only the McMaster standard calculator Casio fx-991 is allowed.

1. Which of the following integrals represents the area of the region enclosed by the curves

$$y = \cos x, \quad y = \sin 2x, \quad x = 0, \quad x = \pi/2$$

- (a) $\int_0^{\pi/2} (\cos x - \sin 2x) dx$
(b) $\int_0^{\pi/4} (\cos x - \sin 2x) dx + \int_{\pi/4}^{\pi/2} (\sin 2x - \cos x) dx$
(c) $\int_0^{\pi/4} (\sin 2x - \cos x) dx + \int_{\pi/4}^{\pi/2} (\cos x - \sin 2x) dx$
(d) $\int_0^{\pi/6} (\cos x - \sin 2x) dx + \int_{\pi/6}^{\pi/2} (\sin 2x - \cos x) dx$
(e) $\int_0^{\pi/6} (\sin 2x - \cos x) dx + \int_{\pi/6}^{\pi/2} (\cos x - \sin 2x) dx$

2. Find the area of the region enclosed by the curves $y = 12 - x^2$ and $y = x^2 - 6$.

- (a) 72 (b) 66 (c) 54 (d) 86 (e) 44

3. Select the answer which represents the area of the region enclosed by the curves $y = x^2$, $y = x$, $x = 0$, $x = \frac{3}{2}$.

- (a) $\int_0^{3/2} (x^2 - x) dx$ (b) $\int_0^{3/2} (x - x^2) dx$ (c) $\int_0^1 (x - x^2) dx + \int_1^{3/2} (x^2 - x) dx$
(d) $\int_0^1 (x^2 - x) dx + \int_1^{3/2} (x - x^2) dx$ (e) $\int_0^1 x dx - \int_1^{3/2} x^2 dx$

4. The region $\mathcal{R}$ enclosed by the curves $y = x$ and $y = x^2$ is rotated about the x -axis. Find the volume of the resulting solid.

- (a) $\frac{2\pi}{12}$ (b) $\frac{\pi}{6}$ (c) $\frac{\pi}{3}$ (d) $\frac{\pi}{12}$ (e) $\frac{3\pi}{12}$

Math 1za3 Final Exam

Shumatir Monijore



Math 1za3 Final Exam:

Solved Problems of Applied Mathematics III. Final Examination of Applied Mathematics III for Second Year Engineering Students Shumatir Monijore, 2020-04-08 Written Test from the year 2020 in the subject Mathematics Applied Mathematics Arba Minch University Natural and Computational Science course Applied Mathematics III language English abstract This work contains several tasks and problems of Applied Mathematics for Second Year Engineering Students In particular the test covers three specific fields of Mathematics Vector calculus covers complex analytic function and contour integrals The solution and approach to each of the given tasks is given and laid out in consecutive succession

Math 1za3 Final Exam Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Math 1za3 Final Exam**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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