

Topic: Integration

1. The diagram shows the graphs of  $y = x^2 + 4$  and  $y = 8 - 2x$  and  $y = 0$  for  $0 \leq x \leq 4$ .



Find the shaded area.

10%

2. Find the following indefinite integrals, using only appropriate methods.

(a)  $\int \frac{1}{x^2 + 1} dx$

10%

(b)  $\int \frac{1}{x^2 + 1} dx$

10%

3. In this question you must show detailed working from the given initial condition.

(a)  $\int x^2 dx$

10%

(b)  $\int \frac{1}{x^2 + 1} dx$

10%

4. Find  $\int \ln x dx$ .

10%

5. Use a substitution to show that  $\int_0^1 x \sqrt{1-x^2} dx = \frac{1}{3} - \frac{1}{3} \ln 2$  &  $\int_0^1 x \sqrt{1-x^2} dx = \frac{1}{3} - \frac{1}{3} \ln 2$  are obtained from the same integral evaluating the limit.

10%

6. The diagram shows part of the curve  $y = x^2 + 2x + 3$  for  $0 \leq x \leq 4$ .



Use the integral obtain the value bounded by the curve, the x-axis and the line  $x = 4$ .  
Hence show the area is  $\frac{1}{3} + \frac{1}{3} \ln 2$  by using  $y = x^2 + 2x + 3$  and  $y = 0$  and  $x = 4$  and  $x = 0$ .

10%

# Mei Mechanics 1 Chapter Assessment Answers

**SA Dillow**



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**Applied Mechanics** John Perry,1897      **Scientific and Technical Aerospace Reports** ,1979      **Fossil Energy Update** ,1986      Topics in Dynamics of Civil Structures, Volume 4 Fikret Necati Catbas,Shamim Pakzad,Vitomir Racic,Aleksandar Pavic,2025-08-07 Topics in Dynamics of Civil Structures Volume 4 Proceedings of the 31st IMAC A Conference and Exposition on Structural Dynamics 2013 the fourth volume of seven from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Modal Parameter Identification for Civil Structures Vibration Control of Civil Structures Cable Dynamics Damage Detection Models for Civil Structures Data Driven Health Monitoring of Structures Infrastructure Experimental Techniques for Civil Structures Human induced Vibrations of Civil Structures Structural Modeling for Civil Structures      *Mechanics* ,2002      **IMDC97: Proceedings** Pratyush Sen,Richard Birmingham,1997      **Mathematical Reviews** ,2008      Government Reports Announcements ,1970      **U.S. Government Research & Development Reports** ,1970      **Government Reports Announcements & Index** ,1992      **Paperbound Books in Print** ,1982      *Books and Pamphlets, Including Serials and Contributions to Periodicals* Library of Congress. Copyright Office,1967-07      Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1967      **Dissertation Abstracts International** ,2007      **A Directory of Computer Software Applications** ,  
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