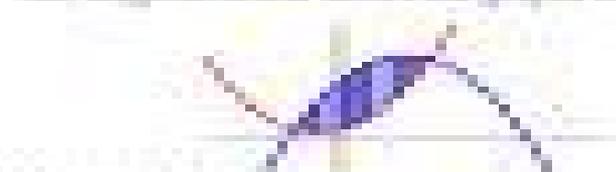


Topic: Integration

1. The diagram shows the graphs of  $y = x^2 + 4x + 5$  and  $y = 2x^2 + 10x + 5$ .



Find the shaded area.

100

2. Find the following indefinite integrals using any appropriate method.

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

100

(b)  $\int \frac{1}{x^2+4} dx$

100

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

(a)  $\int x^2 dx$

100

(b)  $\int \frac{1}{x^2+4} dx$

100

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

100

5. Use a calculator to show that  $\int_0^1 \sqrt{1-x^2} dx = \frac{\pi}{4} - \frac{1}{2}$  and  $\int_0^1 \sqrt{1-x^2} dx = \frac{\pi}{4} - \frac{1}{2}$  are identical and are correct to 6 decimal places.

100

6. The diagram shows part of the curve  $y = \frac{1}{x}$  for  $x > 0$ .



Use the region where the curve is shaded to show that the area  $A$  is given by the line  $2 \ln 2$ . Show clearly how you use the fact that  $\int \frac{1}{x} dx = \ln|x| + c$  and give suitable conditions for the limit.

100

# Mei Integral Answers

**J Dewey**



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**Conference Publication** ,1978     **Asian and African Studies** Slovenská akadémia vied. Kabinet orientalistiky,Ústav orientalistiky (Slovenská akadémia vied),1966     **The Democratization of Taiwan's Social Studies Curricula** Phone-mei Chou,1999     *International Aerospace Abstracts* ,1995     **The Conference Daily** Liu Mei Chung-kuo hsüeh shêng hui,1922     **Variety's Complete Home Video Directory** ,1988     **Reviews in Complex Analysis, 1980-86** ,1989

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