

Topic: Integration

1. The diagram shows the graphs of $y = x^2 + 4$ and $y = 8 - 2x$ and y is the line $x = 2$.



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 statement.

(a) $\int x^2 dx$

10%

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

10%

4. Find $\int x^2 dx$.

10%

5. Use a calculator to show that $\int_0^1 \sqrt{1-x^2} dx = \frac{\pi}{4} - \frac{1}{2}$ & $\int_0^1 \sqrt{1-x^2} dx$ is between 0.6 and 0.7 without using the book.

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6. The diagram shows part of the curve $y = x^2 + 2x + 3$ and the line $y = 2x + 3$.



Use the graph to find the value bounded by the curve, the line, the line $x = -3$ & the line $x = 1$.
Hence show the area of A is $\frac{1}{3}$ & the area of B is $\frac{1}{2}$ without using calculus methods for the book.

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Jianyong Han, Xiaoyu Bai, Zhongqiang Liu, Jae-Joon Song, Pengjiao Jia, 2025-03-03 As the result of resource exploitation and underground space development the engineering disasters appear including landslides tunnel collapses earthquakes debris flow and urban facility failures which may lead to substantial economic damages and loss of lives The engineering challenges from the geotechnical engineering have attracted wide attention A large number of engineering disasters like water gushing sand inrush seepage damage gas leakage and gas explosion are triggered due to the complex environment such as high water or gas stress seepage effect and fluid solid interaction In order to control the engineering disaster the primary task to be solved is to reveal the engineering disaster initiation and evolution mechanism induced under complex environment

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