

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. Evaluate the definite integral using suitable technology from the given values of the following.

(a) $\int_0^1 x^2 dx$

100

(b) $\int_0^1 \frac{1}{x^2 + 1} dx$

100

4. Find $\int_0^1 x^2 dx$.

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 $y = x^2 + 2x + 3$.



Use the region above the x-axis bounded by the curve, the y-axis and the line $x = -3$ to show that the area is $\frac{1}{2} \int_{-3}^0 (x^2 + 2x + 3) dx$ and hence evaluate the area.

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