

Question 1.

Find a function f satisfying the following conditions.

$$f''(x) = 6e^{2x}, \quad f(0) = -3 \text{ and } f'(0) = 2.$$

[8]

Question 2.

Evaluate each of the following integrals

a) $\int \frac{\sqrt{\sqrt{x}+5}}{\sqrt{x}} dx$

[6]

b) $\int \left(2^x + 5 \sec 2x \tan 2x - \frac{\arctan x}{1+x^2} \right) dx$

[6]

c) $\int_0^{\frac{\pi}{2}} \frac{4 \cos x}{1 + \sin^2 x} dx$

[8]

d) $\int 3x \ln 2x dx$

[6]

e) $\int_0^3 \frac{1}{\sqrt{3-x}} dx$

[9]

Question 3.

Find the area of the region bounded by the graphs of the equations $y = x^4 - 2x^2$ and $y = 2x^2$.

[10]

Question 4.

In each of the following cases, calculate the volume of the solid generated when the area of the region bounded by the given curves is revolved around the stated axis.

a) $y = \sin x$, x -axis, $x = 0$, $x = \pi$ around the y -axis.

[6]

b) $y = x^2$, x -axis, $x = 1$, $x = 3$ around the x -axis.

[5]

Question 5.

a) Approximate the following integral using the *Trapezoid Rule* with $n = 4$.

$$\int_0^{2\pi} \sin 2x dx.$$

[9]

b) Calculate the arc length of the graph of the function $f(x) = \ln(\sec x)$ on the interval $[0, \frac{\pi}{4}]$.

[10]

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