NEWFOUNDLAND AND LABRADOR MATHEMATICS 3208 · UNIT D · 10 QUESTIONS

Integrals and Their Applications — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **$\int_0^1 e^x\,dx$ is, to two decimal places**

ANSWER

Understand It with Pulse | Flag a mistake

2 $\int_0^3 (2x + 1)\,dx$ is



ANSWER

Understand It with Pulse | Flag a mistake

3 The area under $y = 3x$ from $x = 0$ to $x = 2$ is

ANSWER

Understand It with Pulse | Flag a mistake

4 **The area under $y = x^3$ from $x = 0$ to $x = 1$ is, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **If $v(t) = 4t$, then the distance travelled from $t = 0$ to $t = 3$ is**



ANSWER _____

Understand It with Pulse | Flag a mistake

6 $\int_{-2}^{2} x^2\,dx$ is, to two decimal places

ANSWER

Understand It with Pulse | Flag a mistake

7 $\int_{0}^{1} (2x^2 + 1)\,dx$ is, to two decimal places

ANSWER

Understand It with Pulse | Flag a mistake

8 The average value of f(x) = 3x on [0, 2] is

ANSWER

Understand It with Pulse | Flag a mistake

9 $\int_{0}^{\pi/2} \cos x\,dx$ is

ANSWER

Understand It with Pulse | Flag a mistake

10 $\int x^5\,dx$ is

A x^6

B $x^6 + C$

C $5x^4 + C$

D x^5

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 1.72
2. 12
3. 6
4. 0.25
5. 18
6. 5.33
7. 1.67
8. 3
9. 1
10. A

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