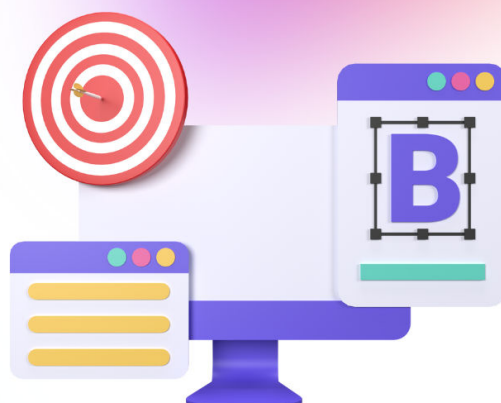


ANTI-DERIVATIVE FORMULA

Antiderivative is a function that typically does something that is the reverse of what the derivative will do. A function has many antiderivatives, all of which are functions and an arbitrary constant. The antiderivatives play an essential part in indefinite integrals, and they help to simplify a complicated expression that makes the entire calculation very easy.

[Read more](#)

Q1: What is the antiderivative of x^2 ?

- A: x^2
 - B: $x^3/3$
 - C: $2x$
 - D: $3x^2$
-

Q2: Which trigonometric function's antiderivative is $-\cos(x)$?

- A: $\sin(x)$
 - B: $\cos(x)$
 - C: $\tan(x)$
 - D: $\cot(x)$
-

Q3: What is the antiderivative of $2/x$?

- A: $2x$
 - B: $\ln(x)$
 - C: $2\ln(x)$
 - D: x^2
-

Q4: What are the Rules of Antiderivative Calculation?

- A: Power Rule
 - B: Exponential Rule
 - C: Trigonometric Rule
 - D: All of these
-

Q5: What is the antiderivative of $2x$?

- A: $x^2 + C$
 - B: x^2
 - C: $x^2 - C$
 - D: x
-

Q6: Identify the Techniques of Integration

- A: Substitution
 - B: Integration by Parts
 - C: Both A and B
 - D: None of these
-

Q7: What is the antiderivative of $x/3$?

- A: x^3
 - B: $x^3 - C$
 - C: $x + 3$
 - D: $3\ln(x)$
-

Q8: What is the antiderivative of $\sin 4t$?

- A: $-14\cos(4t)$
 - B: $\cos 4t$
 - C: $14 \cos(t)$
 - D: $-4\cos(t)$
-

Q9: Where can you use the Antiderivatives in real life?

- A: Car speed
 - B: Walking distance
 - C: Stock
 - D: All of these
-

Q10: What is the antiderivative of x^2 ?

- A: $x + 2$
 - B: x^2
 - C: $\frac{1}{3} x^3$
 - D: x^3
-



Answers

Q1: C - $2x$

Q2: B - $\cos(x)$

Q3: C - $2\ln(x)$

Q4: D - All of these

Q5: A - $x^2 + C$

Q6: C - Both A and B

Q7: D - $3\ln(x)$

Q8: A - $-14\cos(4t)$

Q9: D - All of these

Q10: C - $\frac{1}{3}x^3$