Question Paper - Calculus

Difficulty: Medium Time: 25

Q1. Q1. Let f(x) = x^3 + 3x^2. What is f'(x)?

A) 3x^2 + 6x

B) 3x^2 + 2x

C) x^2 + 6x

D) 6x^2 + 3x

Q2. Q2. Evaluate the indefinite integral ∫ 2x dx.

A) x^2 + C

B) 2x + C

C) x + C

D) ln|x| + C

Q3. Q3. Let f(x) = x^3 + 3x^2. What is f'(x)?

A) 3x^2 + 6x

B) 3x^2 + 2x

C) x^2 + 6x

D) 6x^2 + 3x

Q4. Q4. Evaluate the indefinite integral ∫ 2x dx.

A) x^2 + C

B) 2x + C

C) x + C

D) ln|x| + C

Q5. Q5. Let f(x) = x^3 + 3x^2. What is f'(x)?

A) 3x^2 + 6x

B) 3x^2 + 2x

C) x^2 + 6x

D) 6x^2 + 3x

Q6. Q6. Evaluate the indefinite integral ∫ 2x dx.

A) x^2 + C

B) 2x + C

C) x + C

D) ln|x| + C