

Assignment- Integration

Evaluate each indefinite integral.

1) $\int (24x^5 + 16x^3 + 10x) dx$

2) $\int (5x^4 + 16x^3 + 1) dx$

3) $\int (20x^4 + 12x^3 + 1) dx$

4) $\int (20x^4 + 4x^3 - 2x) dx$

5) $\int (25x^4 + 4x^3 - 4) dx$

6) $\int (24x^5 - 3x^2 + 10x) dx$

7) $\int (3x^2 + 2x + 4) dx$

8) $\int (18x^5 + 15x^2 - 8x^{-3}) dx$

9) $\int (20x^4 + 10x^{-3} - 3x^{-4}) dx$

10) $\int (3x^2 + 3x^{-2} + 4x^{-5}) dx$

Answers to Assignment- Integration

1) $4x^6 + 4x^4 + 5x^2 + C$

2) $x^5 + 4x^4 + x + C$

3) $4x^5 + 3x^4 + x + C$

4) $4x^5 + x^4 - x^2 + C$

5) $5x^5 + x^4 - 4x + C$

6) $4x^6 - x^3 + 5x^2 + C$

7) $x^3 + x^2 + 4x + C$

8) $3x^6 + 5x^3 + \frac{4}{x^2} + C$

9) $4x^5 + \frac{1}{x^3} - \frac{5}{x^2} + C$

10) $x^3 - \frac{3}{x} - \frac{1}{x^4} + C$

