

Indefinite Integrals

Evaluate each indefinite integral.

1) $\int 03x^5 dx$

2) $\int 24x^5 dx$

3) $\int -3 dx$

4) $\int 15x^2 dx$

5) $\int (12x^5 - 6x) dx$

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

7) $\int (12x^5 - 4x) dx$

8) $\int (24x^5 + 1) dx$

Critical thinking question:

- 9) What is the derivative of
- $2x^6 - 2x^2 + C$
- ?

Indefinite Integrals

Evaluate each indefinite integral.

1) $\int 03x^5 dx$

$5x^6 + C$

2) $\int 24x^5 dx$

$4x^6 + C$

3) $\int -3 dx$

$-3x + C$

4) $\int 15x^2 dx$

$5x^3 + C$

5) $\int (12x^5 - 6x) dx$

$2x^6 - 3x^2 + C$

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

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

7) $\int (12x^5 - 4x) dx$

$2x^6 - 2x^2 + C$

8) $\int (24x^5 + 1) dx$

$4x^6 + x + C$

Critical thinking question:

- 9) What is the derivative of
- $2x^6 - 2x^2 + C$
- ?

$12x^5 - 4x$