

St. 20 Trig and Integration - LVL3

Evaluate each indefinite integral.

1) $\int -10x \sin(x^2 + 2) dx$

2) $\int 6x^2 \cdot \sec^2(2x^3 - 1) dx$

3) $\int 10x^4 \cdot \csc^2(x^5 + 5) dx$

4) $\int 8x \csc(2x^2 + 1) \cdot \cot(2x^2 + 1) dx$

5) $\int 60x^2 \cdot \sec^2(5x^3 - 4) dx$

6) $\int 24x \sin(3x^2 - 1) dx$

7) $\int 16x^3 \cdot \sec^2(x^4 + 2) dx$

8) $\int 60x^3 \cdot \sec^2(3x^4 + 1) dx$

9) $\int -25x^4 \csc(5x^5 + 4) \cdot \cot(5x^5 + 4) dx$

10) $\int 10x \cdot \csc^2(5x^2 - 3) dx$

Answers to St. 20 Trig and Integration - LVL3 (ID: 1)

- 1) $5\cos(x^2 + 2) + C$ 2) $\tan(2x^3 - 1) + C$ 3) $-2\cot(x^5 + 5) + C$ 4) $-2\csc(2x^2 + 1) + C$
5) $4\tan(5x^3 - 4) + C$ 6) $-4\cos(3x^2 - 1) + C$ 7) $4\tan(x^4 + 2) + C$ 8) $5\tan(3x^4 + 1) + C$
9) $\csc(5x^5 + 4) + C$ 10) $-\cot(5x^2 - 3) + C$