

1. (1 point)

Evaluate the integral using integration by parts with the indicated choices of u and dv :

$$\int -7x \ln(x) dx; \quad u = \ln(x), \quad dv = -7x dx$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

2. (1 point)

Evaluate the integral using integration by parts with the indicated choices of u and dv :

$$\int 1t \sec^2(t) dt; \quad u = 1t, \quad dv = \sec^2(t) dt$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

3. (1 point)

Evaluate the integral

$$\int x \cos(1x) dx$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

4. (1 point)

Evaluate the integral

$$\int 1r e^{r/2} dr$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

5. (1 point)

Evaluate the integral

$$\int t \sin(2t) dt$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

6. (1 point)

Evaluate the integral

$$\int -1 \ln(2x + 1) dx$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

7. (1 point)

Evaluate the integral

$$\int -4 \sin^{-1}(x) dx$$

Note: Use an upper-case "C" for the constant of integration. Also, if you need to use the inverse sine function in your answer, use "asin()" or "arcsin()".

Answer(s) submitted:

•

(incorrect)

8. (1 point) Evaluate the indefinite integral.

$$\int \arctan(9t) dt = \underline{\hspace{2cm}}$$

Answer(s) submitted:

•

(incorrect)

9. (1 point)

Evaluate the integral

$$\int -4(\ln x)^2 dx$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

10. (1 point)

Evaluate the integral

$$\int 3t^3 e^t dt$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

11. (1 point)

Evaluate the integral

$$\int e^{-1t} \sin(-2t) dt$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

12. (1 point)

First make a substitution and then use integration by parts to evaluate the integral

$$\int -1 \sin(\sqrt{x}) dx$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

13. (1 point)

Evaluate the integral

$$\int 7 \cos(\ln(x)) dx, \quad x > 0$$

Note: Use an upper-case "C" for the constant of integration.

Answer(s) submitted:

•

(incorrect)

14. (1 point)

First make a substitution and then use integration by parts to evaluate the integral

$$\int_{\sqrt{\pi/2}}^{\sqrt{\pi}} 2t^3 \cos(t^2) dt$$

Answer(s) submitted:

•

(incorrect)

15. (1 point)

Evaluate the following integral:

$$\int_0^{\pi} -7t \sin(3t) dt$$

Answer(s) submitted:

•

(incorrect)

16. (1 point)

Evaluate the following integral:

$$\int_0^1 10(x^2 + 1)e^{-x} dx$$

Answer(s) submitted:

•

(incorrect)

17. (1 point)

Evaluate the following integral:

$$\int_1^2 \frac{7 \ln(x)}{x^2} dx$$

Answer(s) submitted:

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(incorrect)