[redacted]

1. (1 point)
Evaluate the indefinite integral:

$$\int (x^3+9)^6(3x^2)\,dx = \_\_\_\_\_ + C.$$

Answer(s) submitted:

•

(incorrect)

2. (1 point) Evaluate the integral

$$\int x^3(x^4-6)^6 dx,$$

by making the substitution $u = x^4 - 6$.

Answer: _____ $+ C$.

NOTE: Your answer should be in terms of x and not u.
Answer(s) submitted:

•

(incorrect)

3. (1 point) Evaluate the following indefinite integral using the substitution $u = 5x+1$.

$$\int \frac{-22}{(5x+1)^6}\,dx = \_\_\_\_\_$$

Answer(s) submitted:

•

(incorrect)

4. (1 point) Evaluate the indefinite integral.

$$\int \frac{x^2}{x^3+1}\,dx$$

Answer: _____ $+ C$
Answer(s) submitted:

•

(incorrect)

5. (1 point)
Evaluate the indefinite integral.

$$\int \frac{4x-1}{(4x^2-2x+6)^6}dx$$

Answer = _____ $+C$
Answer(s) submitted:

•

(incorrect)

6. (1 point)
Evaluate the indefinite integral.

$$\int \frac{x+2}{x^2+4x+5}\,dx$$

Answer: _____ $+C$

Answer(s) submitted:

•

(incorrect)

7. (1 point) Evaluate the indefinite integral.

$$\int x^3\sqrt{5+x^4}dx$$

Answer: _____ $+ C$
Answer(s) submitted:

•

(incorrect)

8. (1 point) Find the following indefinite integrals.
$\int \frac{x}{\sqrt{x+3}}\,dx =$ _____ $+C$
Answer(s) submitted:

•

(incorrect)

9. (1 point) Evaluate the integral by making the given substitution.

$$\int \sec(4x)\tan(4x)\,dx, \qquad u = 4x$$

Answer: _____ $+C$
Answer(s) submitted:

•

(incorrect)

10. (1 point) Evaluate the indefinite integral.

$\int \tan(x)\mathrm{d}x =$ _____ $+C$.

Hint: write $\tan(x) = \frac{\sin(x)}{\cos(x)}$

Answer(s) submitted:

•

(incorrect)

11. (1 point) Evaluate the indefinite integral.

$$\int \frac{\cos x}{4\sin x + 20}\, dx$$

_____ $+C$

Answer(s) submitted:

•

(incorrect)

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12. (1 point)
Evaluate the indefinite integral

$$\int -5\sin^3(x)\cos(x)\, dx$$

_____ $+C$

Answer(s) submitted:

•

(incorrect)

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13. (1 point)
Evaluate the indefinite integral

$$\int 6\tan^2(x)\sec^2(x)\, dx$$

_____ $+C$

Answer(s) submitted:

•

(incorrect)

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14. (1 point) Evaluate the indefinite integral.

$$\int x^2 e^{x^3}\, dx$$

Answer = _____ $+C$

Answer(s) submitted:

•

(incorrect)

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15. (1 point)
Evaluate the indefinite integral

$$\int e^x \sqrt{10 + e^x}\, dx$$

_____ $+C$

Answer(s) submitted:

•

(incorrect)

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16. (1 point)
Evaluate the indefinite integral

$$\int 8e^{\cos(t)}\sin(t)\, dt$$

_____ $+C$

Answer(s) submitted:

•

(incorrect)

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17. (1 point) Evaluate the indefinite integral.

$\int 2e^{2x}\sin\left(e^{2x}\right) dx =$ _____.

Answer(s) submitted:

•

(incorrect)

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18. (1 point)
Evaluate the indefinite integral

$$\int \frac{-8(\ln(x))^2}{x}\, dx$$

_____ $+C$

Answer(s) submitted:

•

(incorrect)

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19. (1 point) $\int \frac{1}{x^2+8x+97}\, dx =$ _____ $+C$

WeBWorK notation for $\sin^{-1}(x)$ is arcsin(x) or asin(x), for $\tan^{-1}(x)$ it's arctan(x) or atan(x).

Answer(s) submitted:

•

(incorrect)

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20. (1 point) $\int \frac{1}{\sqrt{25-81x^2}} dx =$ _____ $+C$

WeBWorK notation for $\sin^{-1}(x)$ is arcsin(x) or asin(x), for $\tan^{-1}(x)$ it's arctan(x) or atan(x).

Answer(s) submitted:

•

(incorrect)

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21. (1 point)
Evaluate the definite integral.

$$\int_0^5 \cos(\pi x)\, dx$$

Answer: _____

Answer(s) submitted:

•

(incorrect)

22. (1 point)
Evaluate the definite integral:

$$\int_0^{\sqrt{\pi}} 5x\cos(x^2)\,dx$$

Answer(s) submitted:

-

(incorrect)

23. (1 point)
Evaluate the definite integral:

$$\int_0^{\pi} 4\sec^2(t/4)\,dt$$

Answer(s) submitted:

-

(incorrect)

24. (1 point)
Evaluate the definite integral:

$$\int_e^{e^4} \frac{3}{x\sqrt{\ln(x)}}\,dx$$

Answer(s) submitted:

-

(incorrect)

25. (1 point)
Evaluate the definite integral.

$$\int_0^8 xe^{-x^2}\,dx$$

Answer: _____

Answer(s) submitted:

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(incorrect)