

1. [-/1 Points]

DETAILS

SCALCET9 5.5.001.NVA

Evaluate the integral by making the given substitution. (Use C for the constant of integration.)

$$\int \cos(4x) dx, \quad u = 4x$$

2. [-/1 Points]

DETAILS

SCALCET9 5.5.004.NVA

Evaluate the integral by making the given substitution. (Use C for the constant of integration.)

$$\int \sin^4(\theta) \cos(\theta) d\theta, \quad u = \sin(\theta)$$

3. [-/1 Points]

DETAILS

SCALCET9 5.5.015.MI.

Evaluate the indefinite integral. (Remember to use absolute values where appropriate. Remember the constant of integration.)

$$\int \frac{dx}{8x + 9}$$

Need Help?**Watch It****Master It**

4. [-/1 Points]

DETAILS

SCALCET9 5.XP.5.031.NVA

Evaluate the indefinite integral. (Use C for the constant of integration.)

$$\int e^{\cos(5t)} \sin(5t) dt$$

5. [-/1 Points]

DETAILS

SCALCET9 5.5.045.NVA

Evaluate the indefinite integral. (Use C for the constant of integration.)

$$\int \frac{\sin(2x)}{24 + \cos^2(x)} dx$$

Need Help?**Watch It**

6. [-/1 Points]

DETAILS

SCALCET9 5.5.053.NVA

Evaluate the indefinite integral. (Use C for the constant of integration.)

$$\int x(6x + 5)^8 dx$$

Need Help?**Watch It**

7. [-/1 Points]

DETAILS

SCALCET9 5.5.061.

Evaluate the definite integral.

$$\int_0^1 \sqrt[3]{1 + 7x} dx$$

8. [-/1 Points]

DETAILS

SCALCET9 5.5.068.

Evaluate the definite integral.

$$\int_0^{\pi/2} 6 \cos(x) \sin(\sin(x)) dx$$

9. [-/1 Points]

DETAILS

SCALCET9 5.5.073.

Evaluate the definite integral.

$$\int_7^8 x\sqrt{x-7} dx$$

Need Help?

[Watch It](#)

10. [-/1 Points]

DETAILS

SCALCET9 5.5.088.

A bacterial population starts with 450 bacteria and grows at a rate of $r(t) = (450.269)e^{1.12567t}$ bacteria per hour. How many bacteria will there be after three hours? (Round your answer to the nearest integer.)

 bacteria