

1. [-/1.25 Points]

**DETAILS**

SCALCET9 5.3.009.

Use part one of the fundamental theorem of calculus to find the derivative of the function.

$$g(x) = \int_0^x \sqrt{t^3 + t^5} dt$$

 $g'(x) =$ **Need Help?****Watch It**

2. [-/1.25 Points]

**DETAILS**

SCALCET9 5.XP.3.008.

Use part one of the [fundamental theorem of calculus](#) to find the derivative of the function.

$$g(s) = \int_6^s (t - t^5)^3 dt$$

 $g'(s) =$ **Need Help?****Watch It**

3. [-/1.25 Points]

**DETAILS**

SCALCET9 5.3.025.

Evaluate the integral.

$$\int_7^9 (x^2 + 2x - 4) dx$$

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

4. [-/1.25 Points]

**DETAILS**

SCALCET9 5.3.029.

Evaluate the integral.

$$\int_1^4 \sqrt{x} \, dx$$

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

5. [-/1.25 Points]

**DETAILS**

SCALCET9 5.3.036.

Evaluate the integral.

$$\int_0^4 (5 - t)\sqrt{t} \, dt$$

6. [-/1.25 Points]

**DETAILS**

SCALCET9 5.3.045.

Evaluate the integral.

$$\int_1^2 \frac{v^4 + 4v^8}{v^5} \, dv$$

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

7. [-/1.25 Points]

DETAILS

SCALCET9 5.3.069.

Find the derivative of the function.

$$F(x) = \int_x^{x^2} e^{t^7} dt$$

 $F'(x) =$ 

Need Help?

Watch It

8. [-/1.25 Points]

DETAILS

SCALCET9 5.XP.3.015.MI.

Evaluate the integral.

$$\int_0^1 \left( 3 + \frac{1}{2}u^4 - \frac{2}{3}u^9 \right) du$$

Need Help?

Master It

9. [-/1.25 Points]

DETAILS

SCALCET9 5.XP.3.025.

Evaluate the integral.

$$\int_0^{\pi/4} 6 \sec^2(t) dt$$

Need Help?

Watch It

10. [-/1.25 Points]

**DETAILS**

SCALCET9 5.XP.3.024.MI.NVA

Evaluate the integral.

$$\int_0^{\pi/4} 5 \sec(\theta) \tan(\theta) d\theta$$

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

11. [-/1.25 Points]

**DETAILS**

SCALCET9 5.XP.3.026.

Evaluate the integral.

$$\int_2^4 \frac{4 + u^2}{u^3} du$$

12. [-/1.25 Points]

**DETAILS**

SCALCET9 5.XP.3.017.

Evaluate the integral.

$$\int_1^5 \frac{1}{7x} dx$$