

1. (1 point)

Let $f(x) = 7 + \frac{6}{x} + \frac{7}{x^2}$.

$f'(x) =$ _____

$f'(1) =$ _____

$f''(x) =$ _____

$f''(1) =$ _____

Answer(s) submitted:

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•
•

(incorrect)

2. (1 point)

Let $f(x) = \sqrt{x^2 + 10}$.

$f'(x) =$ _____

$f'(4) =$ _____,

$f''(x) =$ _____

$f''(4) =$ _____

Answer(s) submitted:

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(incorrect)

3. (1 point)

Let

$$f(x) = \frac{x^2 + 7x + 12}{4x + 16}$$

(a) $f'(5) =$ _____

(b) $f''(5) =$ _____

[NOTE: There are two ways to do this problem. The first is the quotient rule. The second is much easier and does not use the quotient rule.]

Answer(s) submitted:

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(incorrect)

4. (1 point)

Evaluate the definite integral:

$$\int_1^4 \frac{t^{11} - t^5}{t^8} dt =$$

Answer(s) submitted:

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(incorrect)

5. (1 point) Evaluate the indefinite integral:

$$\int (5s^4 - 5s^5) ds = \text{_____} + C.$$

Answer(s) submitted:

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(incorrect)