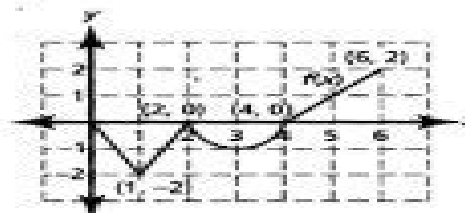


6. Let f be a function defined in the closed interval $0 \leq x \leq 6$. The graph of f consists of three line segments and a semicircle. Let

$$g(x) = 3 + \int_0^x f(t) \, dt.$$

- Find $g(1)$, $g'(1)$, and $g''(1)$.
- What is the average rate of change of $g(x)$ in the interval $2 \leq x \leq 6$?
- What is the average value of $g(x)$ in the interval $2 \leq x \leq 6$?
- Identify the x -coordinate of any extrema of $g(x)$ in $0 < x < 6$. Explain your reasoning.
- Identify the x -coordinate of any points of inflection of $g(x)$ in $0 < x < 6$?



Answers and Answer Explanations

Using the table below, score your test. Determine how many questions you answered correctly and how many you answered incorrectly. Additional information about scoring is at the end of the Practice Test.

1. B	2. A	3. D	4. B	5. E
6. B	7. D	8. A	9. C	10. B
11. A	12. E	13. B	14. D	15. C
16. C	17. E	18. D	19. E	20. D
21. E	22. E	23. D	24. E	25. B
26. B	27. E	28. C	29. E	30. A
31. D	32. E	33. A	34. A	35. B
36. A	37. E	38. A	39. B	40. C
41. B	42. C	43. C	44. C	45. C

1. **ANSWER: (B)** $\int \frac{x-3}{x} \, dx = \int 1 - \frac{3}{x} \, dx = x - 3 \ln x + C$ (*Calculus Early Transcendental Functions* 4th ed. pages 284–291 / 5th ed. pages 284–291)

2. **ANSWER: (A)** Rewrite the limit into factored form, simplify, and substitute $x = -1$.

$$\lim_{x \rightarrow -1} \frac{x^2 - 3x - 4}{x^2 - 1} = \lim_{x \rightarrow -1} \frac{(x-4)(x+1)}{(x-1)(x+1)} = \lim_{x \rightarrow -1} \frac{(x-4)}{(x-1)} = \frac{-5}{-2} = \frac{5}{2}$$

(*Calculus Early Transcendental Functions* 4th ed. pages 79–86 / 5th ed. pages 79–86)

3. **ANSWER: (D)** $f'(x) = 3 + 10 \sin 2x$, and $f'(0) = 3$. For $f(0) = -5$, the tangent is $y + 5 = 3(x - 0)$, or $y = 3x - 5$. (*Calculus Early Transcendental Functions* 4th ed. pages 129, 151–156 / 5th ed. pages 129, 151–156)

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Jerry Bobrow



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web lactic acid bacteria lab constitute a broad heterogeneous group of generally food grade microorganisms historically used in food preservation novel methodologies together with the development of molecular techniques have allowed the identification and discovery of new genera and species

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web nov 8 2023 abstract the current study intended to analyze the impact of ethanol and lactic acid on the bacterial cellulose yield as well as physicochemical and mechanical properties by using gluconacetobacter kombuchae the optimization of ethanol and lactic acid concentration has been done by using one way anova

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web oct 14 2015 lactic acid bacteria lab and yeasts were enumerated and identified from naturally fermented buttermilk isolates were first subjected to chemical tests and then to molecular characterization molecular identification involved pure sequencing of 16s rna lab and 18s rna yeast genes