

11. Given the following information: $g(5) = -4$, $g'(2) = 8$, $g'(8) = 3$, $g'(0) = 8$, $h(5) = 9$, $h'(5) = 2$, and $f(x) = g(h(x))$, find the value of $f'(5)$:

(A) -4 (B) 8 (C) 4 (D) -4 (E) 8

12. Given the function defined by: $f(x) = 3x^2 + 20x^3$, find all the values of x , for which the graph of f is concave up.

(A) $x < 0$ (B) $-\sqrt{2} < x < 0$ or $x > \sqrt{2}$ (C) $-2 < x < 0$ or $x > 2$
 (D) $x > \sqrt{2}$ (E) $-2 < x < 2$

13. Find the slope of the tangent line of $xy^2 + 2y + 4y^2 = 4$ at the point, where $y = 1$.

(A) $-\frac{1}{18}$ (B) $-\frac{1}{28}$ (C) $\frac{5}{18}$ (D) $-\frac{13}{18}$ (E) 2

14. The function f is continuous on the closed interval $[-8, 10]$ and has values as shown in the table below. What is the approximation of $\int_{-8}^{10} f(x)dx$ using a Right Riemann Sum?

x	-8	0	2	7	10
$f(x)$	5	20	15	20	30

(A) 120 (B) 140 (C) 160 (D) 200 (E) 240

15. $\int (2x + 7)^5 dx =$

(A) $\frac{(2x+7)^6}{6} + C$ (B) $\frac{(2x+7)^6}{6} + C$ (C) $\frac{(2x+7)^6}{6} + C$ (D) $\frac{(2x+7)^6}{6} + C$ (E) $6x^6 + 7x^5 + C$

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