

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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in Mathematics from Temple University Philadelphia Mr Schwartz was a 2002 recipient of the Presidential Award for Excellence in Mathematics Teaching and also won the 2007 Outstanding Educator of the Year Award for the Wissahickon School District Mr Schwartz s resource rich website www.mastermathmentor.com is geared toward helping educators teach AP Calculus AP Statistics and other math courses Mr Schwartz is always looking for ways to provide teachers with new and innovative teaching materials believing that it should be the goal of every math teacher not only to teach students mathematics but also to find joy and beauty in math as well

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