

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	50	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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**William Ma, Emily Pillar**



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