

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

(A)  $-8$                       (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  $xy^2 - 2y + 4y^3 = 6$  at the point where  $y = 1$ .

(A)  $-\frac{1}{18}$                       (B)  $-\frac{1}{24}$                       (C)  $\frac{5}{24}$                       (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) 130                      (B) 140                      (C) 148                      (D) 208                      (E) 240

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

(A)  $\frac{2(2x+7)^3}{3} + c$                       (B)  $\frac{2(2x+7)^2}{2} + c$                       (C)  $\frac{2(2x+7)}{2} + c$                       (D)  $\frac{2(2x+7)}{3} + c$                       (E)  $2x^2 + 7x^2 + c$

# 8 Ap Calc Ab Multiple Choice

**William Ma, Emily Pillar**



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