

8. The function f has first derivative given by $f'(x) = 2.5x^2 + 5.5x + 2$. What is the x -coordinate of the $x = 2$ inflection point of the graph of f ?

(A) There is no inflection point. (B) 0.992 (C) 0.829 (D) 1.407

9. Two faces of a solid in the region in the first quadrant bounded by the curve $y = \sqrt{2x}$, the y -axis, and the horizontal line $y = 2$. If on this solid, each cross section perpendicular to the x -axis is an isosceles right triangle. What is the volume of the solid?

(A) 1.229 (B) 1.530 (C) 2.667 (D) 4.189

10. Let f be a differentiable y -function with $f(1) = 4$ and $f'(1) = -3$, and let g be the function defined by $g(x) = 2x - f(x)$. Which of the following is an equation of the line tangent to the graph of g at the point where $x = 1$?

(A) $y = -3x + 1.5$ (B) $y = -2x + 7$ (C) $y = -3x + 2$ (D) $y = 2x + 6$

11. Let g be the function given by $g(x) = \int_0^x 4 \sin(2t) dt$ for $-2 \leq x \leq 1$. On which of the following intervals is g decreasing?

(A) $-2 \leq x \leq -0.847$ (B) $-1.858 \leq x \leq -0.362$
 (C) $-0.847 \leq x \leq 0.524$ (D) $0.472 \leq x \leq 1$

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David Lederman



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web metode luff adalah uji kimia kualitatif yang bertujuan menguji adanya gugus aldehid cho komponen utama reagent luff adalah cuo uji ini dilakukan dengan menambahkan reagen luff pada sampel kemudian dipanaskan reaksi positif pada uji luff ditandai dengan adanya endapan merah

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