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2019 AP[®] CALCULUS AB FREE-RESPONSE QUESTIONS . 5. Let R be the region enclosed by the graphs of $g(x) = -23 + \cos(\pi x)$ and $h(x) = 62 - (x - 1)^2$, the y -axis, and the vertical line $x = 2$, as shown in the figure above. (a) Find the area of R . (b) Region R is the base of a solid. For the solid, at each x the cross section perpendicular to the x -axis has

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AP Calculus Free Response Questions Area and Volume

Corresponding free-response question (FRQ) type in the course and exam description binder. Question 2 will consist of similar components to traditional AP Calculus exam questions, with minor modifications to enable students to choose to submit either typed or handwritten responses.

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2018 AP[®] CALCULUS AB FREE-RESPONSE QUESTIONS . 5. Let f be the function defined by $f(x) = e^x \cos x$. (a) Find the average rate of change of f on the interval $0 \leq x \leq \pi$. (b) What is the slope of the line tangent to the graph of f at $x = 2$? (c) Find the absolute minimum value of f on the interval $0 \leq x \leq 2$. Justify your answer. (d) Let g

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AP Calculus AB 2017 Free Response Question 2 (a) How many pounds of bananas are removed from the display table during the first 2 hours the store is open? (b) Find $f'(7)$. Using correct units, explain the meaning of $f'(7)$ in the context of the problem. (c) Is the number of pounds of bananas on the display table increasing or decreasing at time $t = 5$?

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2015 AP[®] CALCULUS AB FREE-RESPONSE QUESTIONS © 2015 The College Board. Visit the College Board on the Web: www.collegeboard.org. GO ON TO THE NEXT PAGE. -3- 2. Let f and g be the functions defined by $f(x) = 1 - e^{-x^2}$ and $g(x) = x^2 - 4$. Let R and S be the two regions enclosed by the graphs of f and g shown in the figure above.

AP Calculus AB 2015 Free-Response Questions

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AP Calculus AB and AP Calculus BC Sample Questions

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