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AP Calculus AB 2017 Free-Response
Solutions Louis A. Talman, Ph.D.

Emeritus Professor of Mathematics

Metropolitan State University of Denver

May 18, 2017 1 Problem 1 1.1 Part a The
approximation with a left-hand sum
using the intervals given is

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50:32+14:43+6:55 = 176:3: (1) 1.2 Part
b

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This chapter contains solutions and notes for the free-response questions from past AP Calculus exams. The free-response questions and scoring

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guidelines for these exams are posted on the College Board's apstudent web site and, for teachers, on AP Central: For students: AB Questions; BC Questions; For teachers: AB Questions; BC Questions; All solutions:

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Free-Response Questions and Solutions 1989 - 1997

AP Calculus AB 2016 Free Response Question 5. 5. The inside of a funnel of height 10 inches has circular cross sections, as shown in the figure above. At height h , the radius of the funnel is given by $r = \frac{1}{20} (3 + h^2)$, where $0 \leq h \leq 10$. The units of r and h are inches. (a)

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Find the average value of the radius of the funnel.

AP Calculus AB 2016 Exam (solutions, questions, videos)

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www.CalculusQuestions.org | D.

Shubleka Problem 1 BC a) $R'(2) \approx$

$$R(3) - R(1) \quad 3 - 1 = 950 - 1190 \quad 2 = -240 \quad 2$$

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$= -120 \text{ liters/hr}^2$ b) $R(t) = 0.8 \int dt \approx 1 \cdot 1340 + 2 \cdot 1190 + 3 \cdot 950 + 2 \cdot 740 = 8050 \text{ liters}$ The rate removal function is decreasing on the given interval; therefore the left-hand Riemann sum is an overestimate.
c)

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The rate at which rainwater flows into a drainpipe is modeled by the function R ,

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where ()

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These materials were produced by
Educational Testing Service (ETS), which
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AP Calculus AB 2012 Free Response Question 2 2. Let R be the region in the first quadrant bounded by the x -axis and the graphs of $y = \ln x$ and $y = 5 - x$, as

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shown in the figure above. (a) Find the area of R. (b) Region R is the base of a solid. For the solid, each cross section perpendicular to the x-axis is a square.

AP Calculus AB 2012 Exam

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jamesrahn.com

Many students opt to take a math AP exam, and Calculus AB is a popular choice since it's slightly easier than Calculus BC. But to get a high score on it, you'll need to do very well on the free-response section, which requires you to write out your answers to multi-step problems.. In this complete guide, we go

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over the AP Calculus AB Free Response section structure, provide examples to ...

6 Expert Tips to Ace the AP Calculus AB Free Response

AP Calculus Free-Response Solutions and Notes Question BC-1 See AB Question 1 Question BC-2 (a) The curves intersect at 2π $\theta =$ and $\theta = \pi$ The area of R consists

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of the area in the first quadrant plus the area of the quarter circle in the second quadrant: Area $2 \int_0^{\pi/2} \sin^2 \theta d\theta + \frac{1}{4}\pi(2)^2 = 2 \int_0^{\pi/2} \frac{1 - \cos 2\theta}{2} d\theta + \pi = \left[\theta - \frac{\sin 2\theta}{2} \right]_0^{\pi/2} + \pi = \frac{\pi}{2} + \pi = \frac{3\pi}{2} \approx 4.71$

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(a & b)

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This report includes the most recent version of the general instructions for the free-response section, which will be

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in effect for the 2011 exams. This document presents some explanations that will help AP students and teachers interpret these instructions.

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