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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

$50:32+14:43+6:55 =$

$176:3: (1) 1.2$ Part b

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1997 ... Solution (a) ()

()() ()()() () 2 2 2 2 12 ;

2 slope of tangent line

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at $x=2$ line through $(4,0)$ &
 $(0,12)$ has slope $0 - 12 / 4 - 0 = -3$
so $2 - 8 = -12$ or 6 but
 $6 - 24 = -18$ so 6 is not in the
domain. $2 - 8 = -12$ or 6 but
 $6 - 24 = -18$ so 6 is not in the
domain. $2 - 8 = -12$ or 6 but
 $6 - 24 = -18$ so 6 is not in the
domain.

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,
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Response
Solution 1389

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) Find the average value of the radius of the funnel.

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D. Shubleka Problem 1

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Solutions 1009
BC a) $R'(2) \approx R(3) - R(1)$

$$3 - 1 = 950 - 1190 \quad 2 = -240 \quad 2$$

$= -120 \text{ liters/hr}^2$ b) $R(t)$

$$\int_0^8 dt \approx 1 \cdot 1340 + 2 \cdot 1190 + 3 \cdot 950 + 2 \cdot 740 = 8050$$

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 ,
where ()

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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 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.

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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 over the AP Calculus

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AB Free Response

Solution 1989

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 of

the area in the first

quadrant plus the area

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Response
of the quarter circle in
the second quadrant:

Area $2 \int_0^{\pi/2} \cos^2 \theta d\theta = \frac{\pi}{4} + \frac{1}{2}$

$32 \sin^2 24 d\pi \pi = - + \int$
 $\theta \approx 9708$ (b) $\cos 3 2 \sin$
 $2 \cos$

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recent version of the
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