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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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Response Questions and Solutions 1989 - 1997 ... Solution (a)  $(-2, 2)$ ;  $2$  slope of tangent line at  $(-2, 2)$  line through  $(-4, 0)$  &  $(0, 2)$ , has slope  $1/2$  so  $2 - 8 = -6$  or  $-6$  but  $-6 < -4$  so  $-6$  is not in the domain.

## Free-Response Questions and

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## **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) Find the average value of the radius of

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the funnel.

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Showing Work on the Free-Response Sections. You are expected to show enough of your work for AP readers, the high school teachers and college faculty that are scoring the AP Exams, to follow

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your line of reasoning. To obtain full credit for the solution to a free-response problem, communicate your methods and conclusions clearly.

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15 .) Using correct units, interpret the

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meaning of the value in the context of the problem. (c) Find the time

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

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## **AP Calculus AB 2015 Scoring Guidelines - College Board**

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AP Calculus Free-Response Solutions and Notes Question BC-1 See AB Question 1 Question BC-2 (a) The curves intersect at  $2\pi$   $\theta =$  and  $\theta = \pi$  The area of R consists of the area in the first quadrant plus the area of the quarter circle in the second quadrant: Area  $2 \int_0^{\pi} (\sin^2 \theta) d\theta = \frac{1}{2} \int_0^{\pi} (1 - \cos 2\theta) d\theta = \frac{1}{2} [\theta - \frac{1}{2} \sin 2\theta]_0^{\pi} = \frac{1}{2} (\pi - 0) = \frac{\pi}{2}$

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

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the solutions to the AP tests have been posted at this site. If you want to get copies of the questions you will need to visit AP Central at [www.collegeboard.org](http://www.collegeboard.org)

## **AP Calculus Test Materials - jamesrahn.com**

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SECTION II, Part A Time—30 minutes .  
Number of questions—2 . A GRAPHING CALCULATOR IS REQUIRED FOR THESE QUESTIONS. 1. People enter a line for an escalator at a rate modeled by the function  $r$  given by  $r(t) = 44 - 0.001t^2$  for  $0 \leq t \leq 300$  ...

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## **Calculus (solutions, examples, videos)**

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