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Related topics: More videos, activities and spreadsheets suitable for Calculus AP Calculus AB 2016 Free answer questions - Complete paper (pdf) AP Calculus AB 2016 Free answer Question 1. Water is pumped into a tank at a speed modelled by $W(t) = 2000e^{-t/20}$ liters per hour for $0 \leq t \leq 8$, where t is measured in hours. Water is removed from the tank at a speed modelled by $R(t)$ liters per hour, where R is differentiable and decreasing at $0 \leq t \leq 8$. The selected values for $R(t)$ are shown in the table above. At the time $t = 0$, there are 50,000 liters of water in the tank. (a) Estimate $R'(2)$. Show the work that leads to your answer. Enter units of measure. (b) Use a left Riemann sum with the four sub-intervals specified in the table to estimate the total amount of water removed from the tank during the 8 hours. Is this an overestimation or an underestimation of the total amount of water removed? Give a reason for your answer. (c) Use your answer from part (b) to find an estimate of the total amount of water in the tank, to the nearest liter, at the end of 8 hours. (d) Is there a time when the speed at which water is pumped into the tank is the same as the rate at which water is removed from the tank in $0 \leq t \leq 8$? Explain why or why not. View Step-by-Step Solutions AP Calculus AB 2016 Free Answers Question 2 Show Step-by-Step Solutions AP Calculus AB 2016 Free Answers Question 3 Show Step-by-Step Solutions AP Calculus AB 2016 Free Answer Question 4 Show Step-by-Step Solutions AP Calculus AB 2016 Free Answer Question 5 5. The inside of a funnel of height 10 inches has circular cross section, as shown in the figure above. At height h , the radius of the funnel is indicated 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. (b) Find the volume of the funnel. (c) The funnel contains liquid that is drained from the bottom. At the moment when the height of the liquid is $h = 3$ inches, the radius of the surface of the liquid at a speed of $\frac{1}{5}$ inch per second. At this moment, what is the speed of the change of height of the liquid in terms of time? View step-by-step Solutions AP Calculus AB 2016 Free Answer Question 6 Show step-by-step solutions Try the free Mathway calculator and problem solver below to practice various math topics. Try the examples given, or write your own problem and check your answer with the step-by-step explanations. We welcome your feedback, comments and questions about this site or page. Please send your feedback or queries via our feedback page. Page.

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