

# 2017 AP® CALCULUS AB FREE-RESPONSE QUESTIONS

1. A tank has a height of 10 feet. The area of the horizontal cross section of the tank at height  $h$  feet is given by the function  $A$ , where  $A(h)$  is measured in square feet. The function  $A$  is continuous and decreases as  $h$  increases. Selected values for  $A(h)$  are given in the table above.

- (a) Use a left Riemann sum with the three subintervals indicated by the data in the table to approximate the volume of the tank. Indicate units of measure.

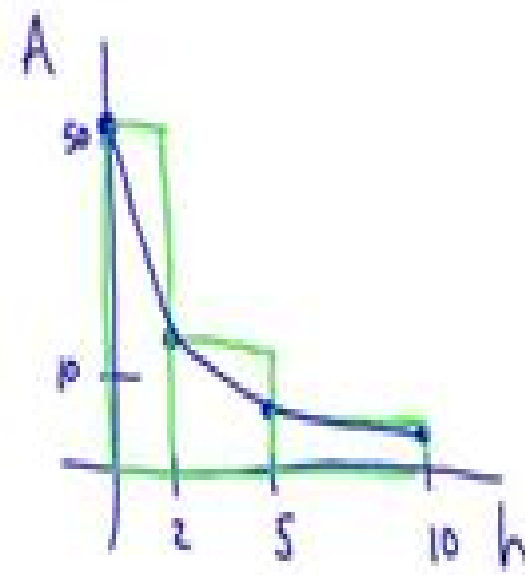
$h$ (feet)	0	2	5	10
$A(h)$ (square feet)	50.3	14.4	6.5	2.9

$$V_{\text{slice}} \approx A_{\text{cross section}} \cdot \Delta h$$

$$V_{\text{Tank}} = \int_0^{10} A(h) \, dh$$

$$\approx 2(50.3) + 3(14.4) + 5(6.5)$$

$$= 176.3 \, \text{ft}^3$$



# 2009 Ap Physics B Answers

**John Michels (Journalist)**



## 2009 Ap Physics B Answers:

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