

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.

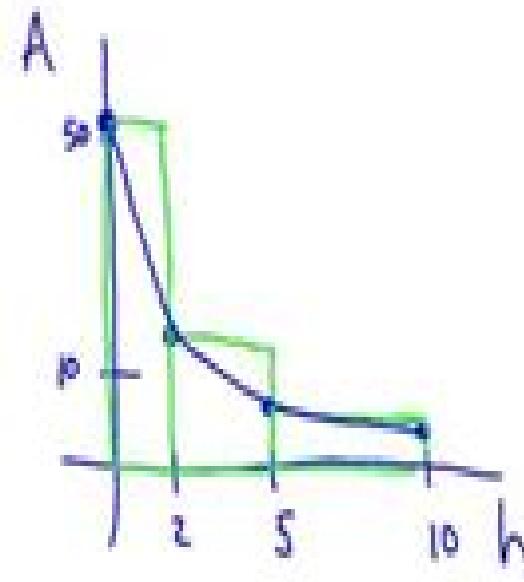
$$\text{slice} \approx A(\text{cross section}) \cdot \Delta h$$

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

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

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

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



2009 Ap Physics B Answers

John Michels (Journalist)

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Hu,2014-11-26 Selected peer reviewed papers from the 2014 2nd International Conference on Mechanical Material Engineering ICMME 2014 November 22 23 2014 Shiyan Hubei China **5 Steps to a 5 AP Physics B & C, 2008-2009**
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