

Problem

**Answer Key**

Points

100%

| $t$ (minutes)               | 0    | 4    | 8    | 12   | 20   |
|-----------------------------|------|------|------|------|------|
| $W(t)$ (degrees Fahrenheit) | 55.0 | 57.1 | 61.8 | 67.9 | 73.8 |

The temperature of water in a bath increases over time, as indicated by a reliable temperature sensor that accurately tracks the water's  $W(t)$  in degrees Fahrenheit and  $t$  in minutes. In addition,  $t = 0$  the beginning of the report is 12°F. The water is transferred to a pot, beginning at time  $t = 0$ . Values of  $W(t)$  at selected times  $t$  (in minutes) are shown, as given in the table above.

(a) Explain, in terms of the table function,  $W(12)$ . Show the calculations that lead to your answer. (Do not round until the final step.)

(b) Use the data provided to estimate  $\int_0^{20} W'(t) dt$ . Using correct units, interpret the meaning of  $\int_0^{20} W'(t) dt$  in the context of this problem.

(c) For  $W(t)$ ,  $t \in [0, 20]$ , the average temperature of the water is the value  $\frac{1}{20} \int_0^{20} W(t) dt$ . (a) Find this average value. (b) Describe, in terms of the data, the value indicated by the data for the definite expression:  $\frac{1}{20} \int_0^{20} W(t) dt$ . Show the calculations that lead to your answer. (c) Interpret the average temperature of the water using three different types of units.

(d) For  $W(t)$ ,  $t \in [0, 20]$ , the function  $W$  that models the water temperature has first derivative given by  $W'(t) = 0.44e^{0.025t} - 0.0005t$ . Based on the model, what is the temperature of the water at time  $t = 22$ ?

a.  $W(12) = \frac{W(0) + W(20)}{2} = 64.4$

$W(0) = 55.0$   $W(20) = 73.8$

Approximated value at which the water is increasing at 12 min

b.  $W(0) + W(4) + W(8) + W(12) + W(20) = 36.9$

Sum of temperatures during the 20 minute interval

c.  $\frac{1}{20} \int_0^{20} W(t) dt = \frac{1}{20} [W(0) + W(4) + W(8) + W(12) + W(20)]$   
 $\frac{1}{20} \int_0^{20} W(t) dt = 36.9$

This approximation underestimates the actual average temperature of the water because the function is actually increasing and its graph is concave up and skewed to the left and not a straight line.

d.  $\int_0^{20} W'(t) dt = W(20) - W(0)$   
 $W(20) = 73.8$   $W(0) = 55.0$   $\int_0^{20} W'(t) dt = 18.8$

$18.8$

# 2014 Ap Open Ended Calculus

**William Ma**



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