

**AP<sup>®</sup> CALCULUS AB**  
**2018 SCORING GUIDELINES**

**Question 1**

(a)  $g'(3) = \frac{g(5) - g(1)}{5 - 1} = \frac{20.5 - 15.1}{4} = 1.35$

At time  $t = 3$  minutes, the rate at which grain is being added to the silo is increasing at a rate of 1.35 cubic feet per minute per minute.

2 :  $\begin{cases} 1 : \text{approximation} \\ 1 : \text{interpretation with units} \end{cases}$

(b) The total amount of grain added to the silo from time  $t = 0$  to time  $t = 8$  is  $\int_0^8 g(t) \, dt$  cubic feet.

$$\begin{aligned} \int_0^8 g(t) \, dt &\approx g(1) \cdot (1 - 0) + g(5) \cdot (5 - 1) + g(6) \cdot (6 - 5) + g(8) \cdot (8 - 6) \\ &= 15.1 \cdot 1 + 20.5 \cdot 4 + 18.3 \cdot 1 + 22.7 \cdot 2 = 160.8 \end{aligned}$$

3 :  $\begin{cases} 1 : \text{integral expression} \\ 1 : \text{right Riemann sum} \\ 1 : \text{approximation} \end{cases}$

(c)  $\int_0^8 w(t) \, dt = 99.051497$

The approximate amount of unspoiled grain remaining in the silo at time  $t = 8$  is  $160.8 - \int_0^8 w(t) \, dt = 61.749$  (or 61.748) cubic feet.

2 :  $\begin{cases} 1 : \text{integral} \\ 1 : \text{answer} \end{cases}$

(d)  $g(6) - w(6) = 18.3 - 16.063173 = 2.236827 > 0$

Because  $g(6) - w(6) > 0$ , the amount of unspoiled grain is increasing at time  $t = 6$ .

2 :  $\begin{cases} 1 : \text{considers } g(6) - w(6) \\ 1 : \text{answer} \end{cases}$

# 14 International Practice Exam Calculus A B Secured

**Yi-Tong Ma**



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