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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.

$$\int_0^8 g(t) dt \approx g(1) \cdot (1 - 0) + g(5) \cdot (5 - 1) + g(6) \cdot (6 - 5) + g(8) \cdot (8 - 6) \\ = 15.1 \cdot 1 + 20.5 \cdot 4 + 18.3 \cdot 1 + 22.7 \cdot 2 = 160.8$$

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

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

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

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

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

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

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

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SJ Ball



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