

2014 AP Calculus AB FRQ 1

$$A(t) = 6.687(0.931)^t \text{ (pounds) } 0 \leq t \leq 30 \text{ (days)}$$

مسئله
[1:43]

a) Average rate of change is $\frac{A(30) - A(0)}{30 - 0}$

Evaluating numerically $A_{avg} \approx -0.1968$ pounds/day

b) $A'(15) \approx -0.1635$. This is the rate

that the mass of grass clippings is decreasing after 15 days in pounds/day (decreasing because the result is negative).

c) The average amount of clippings is

$$\frac{1}{30} \int_0^{30} A(t) dt \approx 2.7526 \text{ pounds}$$

This value is realized at $t \approx 12.4147$ days
(solved by finding intersection of $y = A(t)$ with $y = A_{avg}$)

d)
In general.

Average rate of change on $[a, b]$

$$\frac{f(b) - f(a)}{b - a}$$

Average value on $[a, b]$

$$\frac{1}{b - a} \int_a^b f(x) dx$$

Linear (tangent line) approximation

$$y - y_1 = m(x - x_1)$$

where $m = \frac{dy}{dx}$
 (x_1, y_1)

Calculus Ab Clue Problem Packet Answers

Emilie Sanchez



Calculus Ab Clue Problem Packet Answers:

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