

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

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web by building up from hydrogen this table can be used to determine the electron configuration for any atom on the periodic table we will now construct the ground state electron configuration and orbital diagram for a selection of atoms in the first and second periods of the periodic table

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web electron configurations are a simple way of writing down the locations of all of the electrons in an atom as we know the positively charged protons in the nucleus of an atom tend to attract negatively charged electrons

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