

Cumulative Review of Calculus

1. Using the limit definition of the slope of a tangent, determine the slope of the tangent to each curve at the given point.

a. $f(x) = 3x^2 + 4x - 5$, $(2, 15)$ c. $f(x) = \sqrt{x+3}$, $(6, 3)$

b. $f(x) = \frac{2}{x-1}$, $(2, 2)$ d. $f(x) = 2^{5x}$, $(1, 32)$

2. The position, in metres, of an object is given by $x(t) = 2t^2 + 3t + 1$, where t is the time in seconds.

- Determine the average velocity from $t = 1$ to $t = 4$.
- Determine the instantaneous velocity at $t = 3$.

3. If $\lim_{h \rightarrow 0} \frac{(4+h)^3 - 64}{h}$ represents the slope of the tangent to $y = f(x)$ at $x = 4$, what is the equation of $f(x)$?

4. An object is dropped from the observation deck of the Skylon Tower in Niagara Falls, Ontario. The distance, in metres, from the deck at t seconds is given by $d(t) = 4.9t^2$.

- Determine the average rate of change in distance with respect to time from $t = 1$ to $t = 3$.
- Determine the instantaneous rate of change in distance with respect to time at 2 s.
- The height of the observation deck is 146.9 m. How fast is the object moving when it hits the ground?

5. The model $P(t) = 2t^2 + 3t + 1$ estimates the population of fish in a reservoir, where P represents the population, in thousands, and t is the number of years since 2000.

- Determine the average rate of population change between 2000 and 2008.
- Estimate the rate at which the population was changing at the start of 2005.

6. a. Given the graph of $f(x)$ at the left, determine the following:

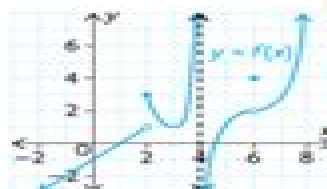
i. $f(2)$

iii. $\lim_{x \rightarrow 2^-} f(x)$

ii. $\lim_{x \rightarrow 2} f(x)$

iv. $\lim_{x \rightarrow 2^+} f(x)$

- b. Does $\lim_{x \rightarrow 2} f(x)$ exist? Justify your answer.



7. Consider the following function:

$$f(x) = \begin{cases} x^2 + 1, & \text{if } x < 2 \\ 2x + 1, & \text{if } x = 2 \\ -x + 5, & \text{if } x > 2 \end{cases}$$

Determine where $f(x)$ is discontinuous, and justify your answer.

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Daniel F McAuley



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