

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:

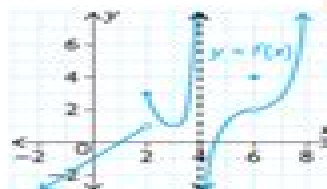
i. $f(2)$

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.

Pre Calculus 11 Solutions Cumulative Review

WJ Hussar



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The Top Books of the Year Pre Calculus 11 Solutions Cumulative Review The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Pre Calculus 11 Solutions Cumulative Review : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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