

## 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:

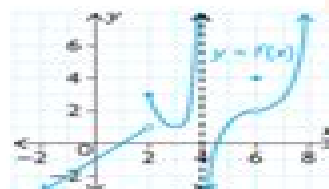
i.  $f(2)$

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

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Pre Calculus 11 Solutions Cumulative Review**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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web procedure 1 find the mass of a clean dry 100 ml beaker and record 2 measure out 8 00 grams of copper ii sulfate onto a piece of filter paper taking the filter paper s mass into account add these to the beaker 3 measure 50 0 ml of water in the cylinder and add it to the beaker 4

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web this experiment is focused on a reaction between iron metal and a solution of copper ii sulfate we are able to figure out the chemical equation between the two by using stoichiometric principles the iron displaces the copper ii sulfate ions the copper ii is then reduced and gains electrons

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web stoichiometry can be defined as the relationship between the relative quantities of substances taking part in a reaction or forming a compound stoichiometric principles can be used to deduce the appropriate chemical equation for a reaction in our experiment we used solid iron in the form of powder was added to a solution of copper ii sulfate

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web under the finalise of the experiment it was found that iron was the limiting reactant and iron ii sulfate was a product of the reaction between 7 0002g away copper ii sulfate and 2 0101g iron metal which produced 2 3037g of copper product with a percent yield of 100 72 introduction

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