**MCV4U Chapter 1: Review Test Answer Sheet**



Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Score: \_\_\_\_\_\_\_\_\_\_\_ /

**Teacher:**  **Date:** **Time:**

**Learning Goals:**

* Students will review and reflect on what they have learned in this chapter.

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| **Overall Expectations** |
| A. RATE OF CHANGE  1. demonstrate an understanding of rate of change by making connections between average rate of change over an interval and instantaneous rate of change at a point, using the slopes of secants and tangents and the concept of the limit;  2. graph the derivatives of polynomial, sinusoidal, and exponential functions, and make connections between the numeric, graphical, and algebraic representations of a function and its derivative;  3. verify graphically and algebraically the rules for determining derivatives; apply these rules to determine the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions, and simple combinations of functions; and solve related problems. |

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| **Specific Expectations** |
| A.1 Investigating Instantaneous Rate of Change at a Point  A.1.1 describe examples of real-world applications of rates of change, represented in a variety of ways  A.1.2 describe connections between the average rate of change of a function that is smooth over an interval and the slope of the corresponding secant, and between the instantaneous rate of change of a smooth function at a point and the slope of the tangent at that point  A.1.3 make connections, with or without graphing technology, between an approximate value of the instantaneous rate of change at a given point on the graph of a smooth function and average rates of change over intervals containing the point  A.1.4 recognize, through investigation with or without technology, graphical and numerical examples of limits, and explain the reasoning involved  A.1.5 make connections, for a function that is smooth over the interval  , between the average rate of change of the function over this interval and the value of the expression , and between the instantaneous rate of change of the function at and the value of the limit |

Purpose of Assessment: Assessment FOR Learning

Method of Assessment: Yes/No

**Instructions:**

1. Make a copy of this document.
2. Answer Pg 56-59 of Textbook Item#2, 4, 5, 7, 11, 13a, 16, 18, 20. [Chapter 1: Review](https://drive.google.com/file/d/1A-CfU-FzKEbVpxImbPRR0NNWtdf48xoP/view).
3. Complete the Chapter 1: Review and put your answers in the Answer Sheet provided.
4. Put a copy of your work in your course folder.

ANSWER SHEET

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| 2. |  |
| 4. |  |
| 5. |  |
| 7. |  |
| 11. |  |
| 13a. |  |
| 16. |  |
| 18. |  |
| 20. |  |