AP Calculus AB Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Derivative as a Function Limits, Cont., & R.O.C Day 10

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| 1. For the function $g$ whose graph is given, arrange the following numbers in increasing order and explain your reasoning.$$0 g^{'}\left(-2\right) g^{'}\left(0\right) g^{'}\left(2\right) g'(4)$$ |  |

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| 2. Match the graph of each function in A.)-D.) with the graph of the derivative in I-IV. Give reasons for your choices. |
| A.) | B.) | I.) | II.) |
| C.) | D.) | III.) | IV.) |

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| 3.-7: Use the given graph to sketch the graph of $f$. | 3. | 4. |

AP Calculus AB Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Derivative as a Function Limits, Cont., & R.O.C Day 10

5.-7:Use the given graph to sketch the graph of $f$.

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| 5. | 6. | 7. |

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| 8.-11: The graph of $f$ is given. State, with reasons, the numbers at which $f$ is not differentiable. |
| 8. | 9. |
| 10. | 11. |