Name	Answer Key	Date	
Math 2301		Derivatives Quiz	

Complete this by yourself. Determine whether you should use the original function, the first derivative or the second derivative for each item listed below. If more than one answer is appropriate, list your answer and then explain your choice.

- 1. Intercepts Original
- 2. Location of stationary points First Derivative
- 3. Location of singular points First Derivative
- 4. Location of maximums First Derivative
- 5. Location of minimums First Derivative
- 6. Y value of maximums Original
- 7. Y value of minimums Original
- 8. Location of points of inflection Second Derivative
- 9. Y value of points of inflection Original
- 10. To determine if a critical point is a maximum Either first or second derivative test
- 11. To determine if a critical point is a minimum Either first or second derivative test
- 12. Intervals of increasing First Derivative
- 13. Intervals of decreasing First Derivative
- 14. Intervals of concave up Second Derivative
- 15. Intervals of concave down Second Derivative