

Honors PreCalculus '16  
Advanced Curve Sketching Group Test  
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Name \_\_\_\_\_

Directions: Round at 3 decimal places.  
Show all work.

1. Find the Extremes of  $y = 5x^3 - x^5$

2. Find the Points of Inflection of  $y = (16 - x^2)e^{-2x}$ .

3. Make a Key Trait Table (without Zeros) for  $y = \frac{x}{9-x^2}$ .

4. Sketch  $y = (x^2)\sqrt{9-x^2}$ , labeling all the Key Traits.

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