## ANALYZE AND SKETCH THE GRAPH OF EACH FUNCTION LISTED BELOW. YOUR SUMMARY SHOULD INCLUDE THE FOLLOWING INFORMATION:

| 1. | domain              | 10. | second derivative |
|----|---------------------|-----|-------------------|
| 2. | range               | 11. | critical numbers  |
| 3. | vertical asymptotes | 12. | sign analysis     |

Function: 
$$f(x) = \frac{x^3 - 4}{x^2}$$

