

# Complete Analysis of a Function

Equation:  $f(x) =$  \_\_\_\_\_

1. domain: \_\_\_\_\_

absolute minimum(s): \_\_\_\_\_

2. range: \_\_\_\_\_

9. increasing: \_\_\_\_\_

3. boundedness: \_\_\_\_\_

decreasing: \_\_\_\_\_

4. horizontal asymptote(s): \_\_\_\_\_

10. point(s) of inflection: \_\_\_\_\_

vertical asymptote(s): \_\_\_\_\_

11. concave up: \_\_\_\_\_

5.  $y$ -intercept(s): \_\_\_\_\_

concave down: \_\_\_\_\_

6.  $x$ -intercept(s): \_\_\_\_\_

13. continuous: \_\_\_\_\_

7. one-to-one: \_\_\_\_\_

14. even/odd: \_\_\_\_\_

8. relative maximum(s): \_\_\_\_\_

15.  $\lim_{x \rightarrow -\infty} f(x) =$       and       $\lim_{x \rightarrow \infty} f(x) =$

absolute maximum(s): \_\_\_\_\_

16. Graph

relative minimum(s): \_\_\_\_\_

