

$f(x) =$ _____ , $f'(x) =$ _____ , and $f''(x) =$ _____

- a. Domain of $f(x)$: _____
- b. x- intercept(s) = _____
- c. y-intercept = _____
- d. vertical asymptote(s): _____
horizontal asymptote: _____
slant asymptote: _____
- e. critical numbers for $f(x)$: _____
- f. Interval(s) $f(x)$ increasing: _____
- g. Interval(s) $f(x)$ decreasing: _____
- h. Local minimum point(s): _____
Local maximum point(s): _____
- i. Interval(s) where $f(x)$ is concave up: _____
Interval(s) where $f(x)$ is concave down: _____
- j. Inflection point(s) for $f(x)$: _____
- k. Symmetry? _____
- l. Sketch the graph of $f(x)$.

