

MATH 114 - Reading Assignment 7- Section 2.3 - Spring 2008

State your name for the record _____

1. Algebraically, how do you determine if a function is even?
2. How does the fact that a function is even translate to the graph of that function?
3. Algebraically, how do you determine if a function is odd?
4. How does the fact that a function is odd translate to the graph of that function?
5. A function f is increasing on an open interval I if, for any choice of x_1 and x_2 in I , with $x_1 < x_2$, we have _____.
6. A function f is decreasing on an open interval I if, for any choice of x_1 and x_2 in I , with $x_1 < x_2$, we have _____.
7. A function f is constant on an open interval I if, for all choices of x in I , with $x_1 < x_2$, the values of $f(x)$ are _____.
8. **True or False:** If there is an open interval I containing c such that $f(x) \leq f(c)$ for all x in I , we say $f(c)$ is a local minimum of f .
9. The average rate of change of f from c to x is defined as:
10. The slope of the secant line through the points $(c, f(c))$ and $(x, f(x))$ is: