Name : _____

4.3 Tech Lab

1. On the grid graph

- a) Use a calculator to graph $f(x) = \frac{10}{x^2+4}$ on the interval [0,5]
- b) Draw a secant line for *f*(*x*) when *x*=1 to *x*=4



2. Calculate

- a) Estimate the slope of the secant line.
- b) Find the average rate of change of f(x) on the interval [1,4]
- c) Find a value c on the interval [1,4] such that f'(c) is equal to the average rate of change found in part b.

3. What theorem guarantees the existence of *c*?