**TOPICS TO REVIEW FOR MIDTERM**

1. Parent graphs and their transformations
2. Bounded above, below, both
3. Intervals (x-values) for which f(x) is increasing or decreasing
4. Domain and range
5. Factor theorem, remainder theorem
6. Graph f(x) by finding asymptotes, holes, intercepts, etc
7. Even, odd function tests
8. Find vertex, focus, directrix of parabola
9. End behavior using proper limit notation
10. Rational roots theorem (p/q)
11. Write a polynomial function, given zeros and multiplicity
12. Solve exponential, logarithmic, and rational equations
13. Logistics functions: horizontal asymptotes, initial value
14. Solve rational equations
15. Solve inequalities with a sign chart
16. Given equation, graph conic sections, give vertices and foci