# Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Calculus 1 - Gateway #2 – Fall 2013

1. Reduce the following to a single term: 
2. Simplify the quotient using either long or synthetic division: 
3. sin() =
4. Find the equation of the line passing through the point (2, 0) and parallel to the line 2x + 3y = 10.
5. Solve for x: x2 + 11x – 11 = 0.
6. Find all x so that |x +5| > 14.
7. Find the center and radius of the circle with equation: x2 + 6x + y2 – 2y = 4.
8. Find the domain of f(x) = 
9. cos() =
10. Given that f(x) = 5x2 – 5 and g(x) = find and simplify f(g(x)).
11. Solve: .
12. Simplify: .