## MA 113 Quiz 4 - 3 October 2013

Name:\_\_\_\_\_

Make sure to show all your work.

1. The equation of the tangent line to f(x) at x = -3 is y = -13(x + 29). Determine a, f(a), and f'(a).

2. Consider the function  $g(x) = \frac{(5x-2)(7x+1)}{2x-4}$ . Find the value(s) of *a* where the equation of the tangent line to the graph of g(x) is perpendicular to the line with equation 4x + 10y = 17. Then determine the equation(s) of the tangent line(s) at the *a* value(s).