Calculus Name_____ ID: 1

Unit 2 Exit Slip (LT 2A - B)

Date_____ Period____

For each problem, find the equation of the line tangent to the function at the given point. Your answer should be in slope-intercept form.

1) $y = -2x^2 + 2$ at $(1, 0)$

2) $y = -\frac{1}{x+3}$ at $\left(3, -\frac{1}{6}\right)$

3) In your own words, what is the greatest difference between the AVERAGE rate of change and the INSTANTANEOUS rate of change?