Name _____ Period_____ Date _____

Ms. Schmidt   Pre-Calculus

Weekly Homework Quiz 1

This is a weekly homework quiz that will be given every week and is due back the following Monday.

This quiz is due back: **September 25th, 2017**

To receive full credit, all work must be shown. Any correct answer without work shown will receive only 1 point. Each question is worth 4 points.

1) Write an equation of a line that is normal to $2y + 5x = 5$ and passes through the point (-2, 4) in point-slope form.

2) Evaluate each of the following using the function $f(x) = 2x^2 + 3$
   a. $f(-4)$ b. $f(x - 4)$

3) Given $m(x) = 2x^2 - 5x + 1$, find and simplify $\frac{m(x+h)-m(x)}{h}$

4) Find the average rate of change of the function $h(x) = 2x^2 - 2x - 1$ between x = -3 and x = 1.

5) Find the domain of each function algebraically.

a. $f(x) = \frac{x}{x^2 - 1}$

b. $k(x) = \frac{x^2 + 4x + 4}{\sqrt{2x - 1}}$