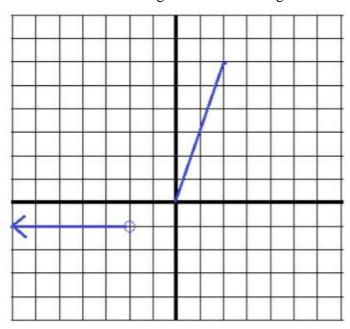
Name _	Period	Date
Ms. Schmidt		Pre-Calculus
Weekly Home This is a weekly homework quiz that will be given ever		e back the following Monday.
This quiz is due back: October 30 th , 2017		
To receive full credit, all work must be shown. Any confidence 1 point. Each question is worth 4 points.	orrect answer witho	out work shown will receive only
1) Expand the binomial: $(2x^2 - 4y)^4$		
2)		
a) Find the inverse of $f(x) = 3x^2 + 1$.		

b) Verify the inverse in #4 by finding $(f \circ f^{-1})(x) = x$ and $(f^{-1} \circ f)(x)$.

3) Write the equation: $4x^2 + 4x + 8y + 12 = 0$ in the form $(x - h)^2 = 4p(y - h)$ and state the vertex.

4) Find the domain and range for the following.



5) Sketch the polynomial by finding the end behavior, multiplicity and the zeros. $f(x) = -x^3 + x^2 + 6x$

$$f(x) = -x^3 + x^2 + 6x$$