MATH 1151 – Precalculus Supplemental Lab Conceptual Activity – Week 1

NAME: _____

SECTION:

1.	Explain in your own words what a $function$ is members'.	in mathematics. Compare your definition to your group
2.	step by step what must be done to transform	f transforming an input into an output. That is, explain the input x into the output $f(x)$. $f(x) = \frac{3x^2}{5} + 1$
3.	For each of the following, is y a function of x ? (a) $y = 2x + 1$	Is x a function of y ? Explain. (d) $x^2 + y^2 = 1$
	(b) $y = x^2$	(e) $y^4 = x - 1$
	(c) $y = x^3$	(f) $y = \sqrt{x}$

4. In your own words, give the meaning of the words domain and range in mathematics.

5. State the domain of the function $f(x) = \frac{5x-1}{2x+7}$.

6. Suppose f is a function with (largest possible) domain $[0,2) \cup (2,\infty)$. Come up with a possible formula for f(x). How did you come up with your answer?