

New Jersey City University
Intermediate Algebra
Peer Led Team Learning Workshop 4B
More About Functions

Section 3.5

- 1) Write an algebraic rule for the following functions, where the domain is the set of integers and x represents an element of the domain. Then evaluate the given function at the indicated value.
 - a) $f(x)$ is an element of the range, and each element of the domain is assigned to twice its value. Evaluate $f(-3)$.
 - b) $g(x)$ is an element of the range, and each element of the domain is assigned to three less than half its value. Evaluate $g(6)$.

Section 3.6

- 2) Suppose your professor thinks of a rule. Then for each input given by one of your classmates, your professor applies the rule and gives the output. For the information given in the table below, state your professor's rule in words and as an equation.

Student says (x)	2	3	4	5
Teacher says (y)	6	12	20	30

Section 3.6

- 3) Mark wants to buy a dozen doughnuts. A local donut shop sells chocolate glazed and strawberry glazed doughnuts for the same price.
 - a) Make a table of all the possible combinations of doughnuts Mark can buy if he buys a dozen, where c is the number chocolate glazed doughnuts and s is the number of strawberry glazed doughnuts.
 - b) Determine a formula for s as a function of c .
 - c) Graph this function.