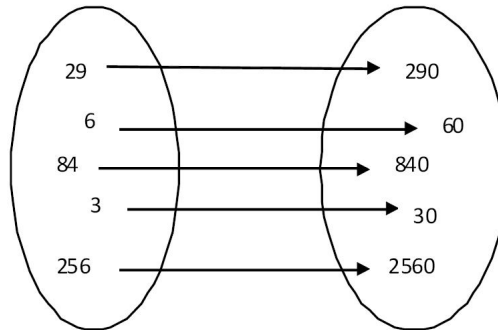


New Jersey City University
Intermediate Algebra
Peer Led Team Learning Workshop 4A
Functions

Section 3.5

1) One visual method of illustrating the assignment of elements from the domain to their corresponding elements in the range is with **arrow diagrams**. Describe a rule for assigning each element of the domain to an element of the range for the arrow diagram. Then write an algebraic formula.



Sections 3.5 and 3.6

2) Suppose your mathematics 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. Then use that rule to fill in the missing values of the table.

Students says (x)	0	1	10	20	32	40	56
Teacher says (y)	3	4	103	403			

Section 3.6

3) Graph the functions: $f(x) = |x|$ and $g(x) = |x + 3|$. How are the graphs the same? How are the graphs different? What would the graph of $h(x) = |x - 1|$ look like when compared to the graph of f ?

