Algebra and Representation HW #11
Tabular Representations of Functions

1. What are the domain and range of the function f given by the following table?

x	1	2.5	3.7	4.2	15	26	37	84	95	102
$f(x)$	12	π	3.7	18	-2	3.5	12	32	212	1/4

2. Give a table representation for the function g that assigns to each of the counting numbers n from 1 to 10 the sum of the first n **odd** counting numbers.

n	1	2	3	4	5	6	7	8	9	10
$g(n)$										

3. Give a table representation for the function A that assigns to each of the counting numbers r from 1 to 10 the area of a circle of radius r. (Give **exact** values of the function in terms of π ; for example, $A(2) = 4\pi$.)

r	1	2	3	4	5	6	7	8	9	10
$A(r)$										

4. What are some of the advantages and some of the disadvantages of giving a tabular representation of a function? In what situations might it be preferable to other types of representations?