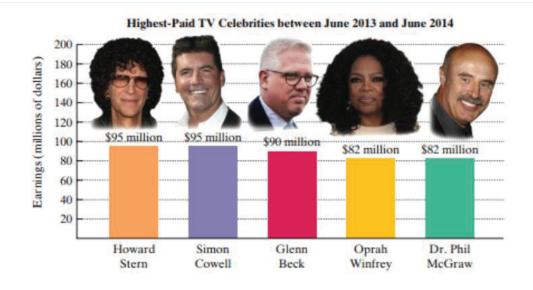
2.1. Basies of Functions and their graphs. (Part I)

Obj 1: Definition of a Relation and to find the domain and the range of a relation.

Definition of a Relation:

A Relation is a set of ordered pairs.



- This is an example of a relation.

(82, Winfrey), (82, McGraw) }
- Another example of a relation. (R2 + R1)

The Domain of a relation is the set of all the

first components of the ordered pairs in the relation

E.g. For the first relation R1:

Domain = { Stern, Cowell, Beck, Winfrey, McGraw}

For the second relation R2:

Domain = {95, 90, 82}

The Range of a relation is the set of all the

second components of the ordered pairs in the relation.

E.g. For R1: Range = {95,90,82}

For R2: Range = Stenn, Cowell, Beck, Winfrey, McGraw

Another example of a relation:

Buy ticket (s) for an event. A ticket costs \$5.

You also have to pay a flat rate of \$2 regardless

of how many tickets you purchase.

Inursday, January 23, 2020 9:58 AM	
# of tickets you buy	cost
1	\$ 7
2	\$ 12
3	\$17
4	\$22
5	\$27
	· ·
Relation R3 = { (1,7),	(2,12), (3,17), (4,22),
	1

Relation R3 =
$$\{(1,7), (2,12), (3,17), (4,22), (5,27)\}$$

Obj 2: Definition of a function and Determine whether a relation is a function.

