Math 10-C Domain & Range Notation Assignment **Name:** KEY

Each table contains the domain for a graph expressed in words, set notation and interval notation. Complete each table. The first one has been done for you.

1. Words:	All real #'s greater than or equal to 4 and less than 8.
Set Notation:	$\{x \mid 4 \le x < 8, x \in R\}$
Interval Notation:	$[4,8)$

2. Words:	All real #'s greater than or equal to -3 and less than or equal to 2.
Set Notation:	$\{x \mid -3 \le x \le 2, x \in R\}$
Interval Notation:	$[-3,2]$

3. Words:	All real #'s greater than or equal to 3.
Set Notation:	$\{x \mid x \ge 3, x \in R\}$
Interval Notation:	$[3,\infty)$

4. Words:	All real #'s less than 5.
Set Notation:	$\{x \mid x < 5, x \in R\}$
Interval Notation:	$(-\infty,5)$

5. Words:	All real #'s greater than or equal to -6 and less than or equal to 6.
Set Notation:	$\{x \mid -6 \le x \le 6, x \in R\}$
Interval Notation:	$[-6,6]$

6. Words:	All real #'s.
Set Notation:	$\{x \mid x \in R\}$
Interval Notation:	$(-\infty,\infty)$

7. Words:	All whole #'s greater than or equal to -3 and less than or equal to 4.
List:	$\{-3,-2,-1,0,1,2,3,4\}$

8. Words:	All even whole #'s greater than or equal to 0 and less than or equal to 10.
List:	{0, 2, 4, 6, 8, 10}

For each of the tables on the previous page, draw a graph that matches the given domain.

1.

2.

3.

4.

5.

6.

7.

8.

State the range for each graph.