Date: Unit 1 – Lesson 1 Interval and Inequality notation/Domain and Range

 What is **Interval Notation** and **Inequality Notation?**

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**Examples:**

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**Why do you think parentheses are used in interval notation for**

**a data set that includes** $\infty or-\infty $ **instead of brackets?**

**PRACTICE:** Give the interval and inequality notation for each graph.

**Inequality Notation: Interval Notation:**

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**Inequality Notation: Interval Notation:**

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**Inequality Notation: Interval Notation:**

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**Inequality Notation: Interval Notation:**

**What is a Relation, Domain, and Range?**

* A **relation** is a set of pairs of input and output values.
* The **domain** of a function or relation is the set of all **input** values or **x-values**
* The **range** of a function or relation is the set of all **output** values or **y-values** that were produced using the possible input values.

**Examples:**

**Practice:** State the domain and range using interval notation for each graph.

1.  2. 3.

**Domain: Domain: Domain:**

**Range: Range: Range:**

**Practice:** State the domain and range using inequality notation for each graph.

**4. 5.**

**Domain: Domain:**

**Range: Range:**

**6.**

1. 

Date: **1.1: Interval and Inequality notation/Domain and Range Homework** HW #

**Directions:** Give the interval and inequality notation for each graph.



1.

**Inequality Notation: Interval Notation:**



2.

**Inequality Notation: Interval Notation:**



3.

**Inequality Notation: Interval Notation:**



4.

**Inequality Notation: Interval Notation:**



5.

**Inequality Notation: Interval Notation:**



6.

**Inequality Notation: Interval Notation:**

**Directions:** State the domain and range using interval notation for each graph.

7. **Domain:**

 **Range:**

8.

 **Domain:**

 **Range:**

**Directions:** State the domain and range using inequality notation for each graph.

9.

 **Domain:**

 **Range:**



10. **Domain:**

 **Range:**