## Section 2 - Domain and Range Notes Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## (Interval Notation)

Define the following terms:

 **Domain –**

 **Range –**





**Find the Domain and Range of the set of points in the table below by watching the Khan Video.**

 Domain:

 Range:

**Find the domain and range of the graphs below in interval notation by watching the YouTube video.**

  

Define the following term:

 **Restricted Domain –**

What are the two different types of restrictions on a domain? Explain each.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Watch the video and take notes - **When is the domain of a function not all real numbers?**

**Four-Step Process to find a domain**

1. **Assume its all real numbers…unless you see…**
2. **The denominator of a rational function can equal zero.**
3. **There is an even root (usually a square root)**
4. **The problem is an application problem and it has a restricted domain given or stated.**

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**Extra Worked Out Examples**

This section also deals with ranges of functions and relations. While domain is the set of inputs of a function, range is the set of outputs. Both are important to mention when describing a graph or function.

**Range**  -

 

Domain: Domain:

Range: Range: