TOPIC: DOMAIN AND RANGE

Domain and Range

◆ For a relation or function, the **domain** is the set of inputs (x-values) and the **range** is the set of outputs (y-values).

EXAMPLE Write a list of ordered pairs for the relation, then find the domain and range.

New **Domain and Range**

x	y
– 2	2
1	1
3	–2
4	4

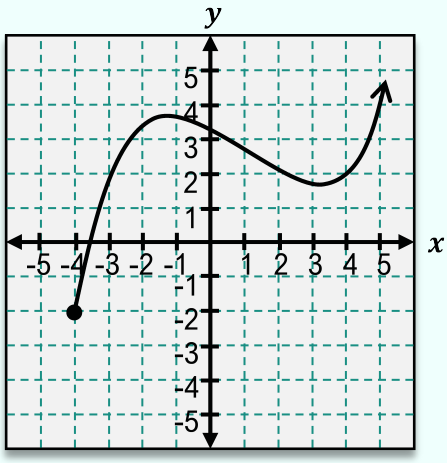
Domain:

Range:

◆ **Domain** of a _____ graph is the *interval* of all x-values, **range** is the *interval* of all y-values.

EXAMPLE Find the domain and range of the function. Write using interval notation.

Recall
● → Include with **[ ]**
○ → Exclude with **( )**
(Interval Notation)



Domain:

Range:

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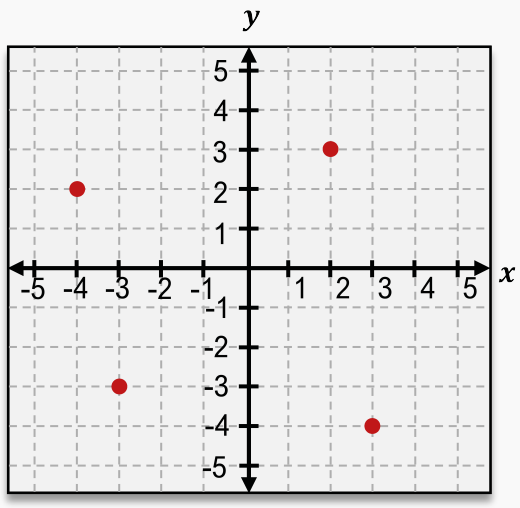
PRACTICE Find the domain and range for each relation.

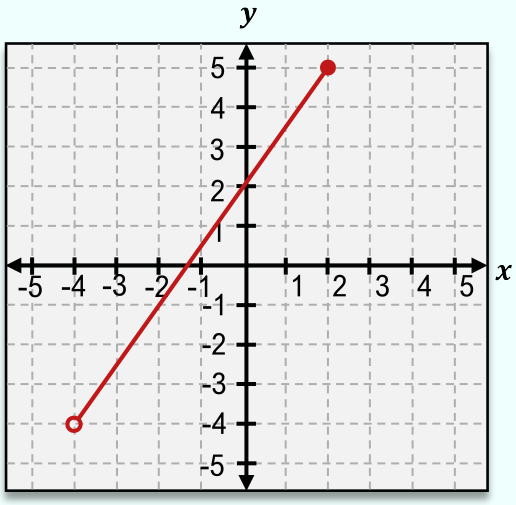
(A) $\{(-4, 2), (-3, -5), (3, 4), (5, -2)\}$

(B)



EXAMPLE Find the domain and range of the following function given its graph. Write in interval notation.

(A)



(B)