

**Finding Domain and Range given Ordered Pairs**

The **domain** is the set of the first coordinates in a set of ordered pairs of a relation or function (usually the  $x$ -coordinate).

The **range** is the set of the second coordinates in a set of ordered pairs of a relation or function (usually the  $y$ -coordinate).

**Examples**

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1. State the domain and range:  $\{(2, 3), (3, 4), (4, 5), (5, 6)\}$   
The domain is all the  $x$ -coordinates.  $D = \{2, 3, 4, 5\}$   
The range is all the  $y$ -coordinates.  $R = \{3, 4, 5, 6\}$
2. State the domain and range:  $\{(2, -3), (3, -3), (4, -5), (3, -5)\}$   
The domain is all the  $x$ -coordinates.  $D = \{2, 3, 4\}$   
The range is all the  $y$ -coordinates.  $R = \{-5, -3\}$

**Try These**

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**State the domain and range for each relation.**

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|--|-------------------|
| 1. $\{(4, 3), (-2, 10), (5, -6), (10, 7)\}$  | 1. _____<br>_____ |
| 2. $\{(-3, -6), (-5, 10), (-1, 2), (0, 0)\}$ | 2. _____<br>_____ |
| 3. $\{(-7, 4), (8, 12), (9, 12), (6, 13)\}$  | 3. _____<br>_____ |
| 4. $\{(7, 2), (7, 3), (7, 4), (7, 5)\}$      | 4. _____<br>_____ |
| 5. $\{(-5, 3), (6, 5), (3, 2), (10, 3)\}$    | 5. _____<br>_____ |
| 6. $\{(6, 4), (-5, 2), (6, 7), (-8, 8)\}$    | 6. _____<br>_____ |

# Finding Domain and Range given a Table

## Examples

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State the domain and range for each relation.

1.

$x$	$y$
1	-4
5	-3
8	-2
9	-2

Domain is the  $x$ -coordinates.

$$D = \{1, 5, 8, 9\}$$

Range is the  $y$ -coordinates.

$$R = \{-4, -3, -2\}$$

2.

$x$	$y$
-7	0
-8	-1
-9	2
-7	-3

Domain is the  $x$ -coordinates.

$$D = \{-9, -8, -7\}$$

Range is the  $y$ -coordinates.

$$R = \{-3, -1, 0, 2\}$$

## Try These

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State the domain and range for each relation.

1.

$x$	$y$
1	6
1	-6
2	8
2	-8

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2.

$x$	$y$
1	4
2	4
3	4
4	4

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3.

$x$	$y$
-4	2
-4	3
-4	4
-4	5

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4.

$x$	$y$
3	2
5	4
7	5
3	7

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5.

$x$	$y$
0	-5
2	6
9	-3
5	0

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6.

$x$	$y$
0	-6
-2	-4
4	-2
-6	-2

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