

Domain and Range

For each of the following problems:

a. State the domain and range for each.

b. Find the maximum and minimum of the x- and y-values.

c. Circle “yes” if the set represents a function, and circle “no” if it does not.

1. $\{(-4, -9), (6, 3), (6, 3), (-4, -6)\}$

a. $D =$ _____

$R =$ _____

b. $x\text{-max} =$ _____ $x\text{-min} =$ _____

$y\text{-max} =$ _____ $y\text{-min} =$ _____

c. Yes No

2. $\{(130, 114), (21, 88), (21, 114), (-46, 88)\}$

a. $D =$ _____

$R =$ _____

b. $x\text{-max} =$ _____ $x\text{-min} =$ _____

$y\text{-max} =$ _____ $y\text{-min} =$ _____

c. Yes No

3. $\{(2, 44), (-32, -62), (24, -62)\}$

a. $D =$ _____

$R =$ _____

b. $x\text{-max} =$ _____ $x\text{-min} =$ _____

$y\text{-max} =$ _____ $y\text{-min} =$ _____

c. Yes No

4. $\{(-41, -146), (-30, -87), (1, 117), (88, -146), (88, -87)\}$

a. $D =$ _____

$R =$ _____

b. $x\text{-max} =$ _____ $x\text{-min} =$ _____

$y\text{-max} =$ _____ $y\text{-min} =$ _____

c. Yes No

5. $\{(175.85, -174.57), (115.68, -185.1), (-47.54, -149.77), (206.28, -154.57), (185.86, -210.19), (186.26, -154.57)\}$

a. $D =$ _____

$R =$ _____

b. $x\text{-max} =$ _____ $x\text{-min} =$ _____

$y\text{-max} =$ _____ $y\text{-min} =$ _____

c. Yes No

6. $\{(6.41, 5.92), (0.66, 5.92), (-3.47, 5.92), (-4.78, -8.67), (9.56, 5.92), (-6.32, 5.92)\}$

a. $D =$ _____

$R =$ _____

b. $x\text{-max} =$ _____ $x\text{-min} =$ _____

$y\text{-max} =$ _____ $y\text{-min} =$ _____

c. Yes No