**Functions & Algebra**

A function is a correspondence between 2 sets in which each element of the first set is assigned to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ element of the second set.

 Falling Objects Distance = Rate x Time Volume

 s = 16t2 d = 70t V = 4/3 π r3

x

 P = \_\_\_\_\_

Students Birthdays

What’s My Rule?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **x** | 0 | 1 | 2 | 3 |
| **y** | 5 | 8 | 11 | 14 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **x** | 0 | 1 | 2 | 3 |
| **y** | 1 | 2 | 4 | 8 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **x** | 1 | 2 | 3 | 4 |
| **y** | -1 | -4 | -7 | -10 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **x** | -2 | -1 | 0 | 1 | 2 |
| **y** | 5 | 2 | 1 | 2 | 5 |

Determine if the following relation is a function. (Yes/No) Briefly explain your reasoning.

{(0, 4), (3, –1), (1, 5), (4, –1), (2, 3)} \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For the function given by , find

 f(0) f(–1) f(-x) 

Match the graphs below with their formulas. (Section 3.4)

 \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_ 

 1 2 3 4

 5 6 7 8

Find the domain of each function.

  g(x) = -0.25x + 5 

   

 

Perform the following operations, and simplify. Also find the domain.

 1. f(x) = x – 2 g(x) = x2 + 3

 f + g f – g fg f/g

 2.  

 f + g f – g fg f/g