**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.

C:\Program Files\Microsoft Expression\MEDIA\OFFICE12\Bullets\BD21331_.gif 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