**Activity 1.2.3a Function Junction**

Determine if each table below represents a function. If it DOES, graph the ordered pairs from the table and sketch the graph of the function by graphing the points and drawing a smooth curve between the points. If it does not, explain why.



1. Gym Membership

|  |  |
| --- | --- |
| **# of Months** | **Total Cost ($)** |
| 1 | 48 |
| 2 | 61 |
| 3 | 74 |
| 4 | 87 |
| 5 | 100 |

1. Cost of Hamburgers

|  |  |
| --- | --- |
| **Burgers Sold (thousands)** | **Cost per Burger ($)** |
| 20 | 0.99 |
| 30 | 0.99 |
| 40 | 0.99 |
| 50 | 0.99 |
| 60 | 0.99 |

1. Height of a Ball

|  |  |
| --- | --- |
| **Time (s)** | **Height (feet)** |
| 0 | 8 |
| 1 | 40 |
| 1.5 | 44 |
| 2 | 40 |
| 2.5 | 28 |
| 3 | 8 |

1. Jamir’s Physical Data

|  |  |
| --- | --- |
| **Height (inches)** | **Weight (pounds)** |
| 48 | 110 |
| 54 | 125 |
| 62 | 135 |
| 62 | 150 |
| 69 | 165 |

1. Investing Money

|  |  |
| --- | --- |
| **Number of Years** | **Total Value ($)** |
| 0 | 4000 |
| 1 | 4240 |
| 2 | 4494 |
| 3 | 4764 |
| 4 | 5050 |

Determine if each graph below represents a function. If it DOES, (a) make a table of four ordered pairs represented on the graph and (b) write the domain and the range.



|  |  |
| --- | --- |
| *x* | *y* |
|  |  |
|  |  |
|  |  |
|  |  |

1.

|  |  |
| --- | --- |
| *x* | *y* |
|  |  |
|  |  |
|  |  |
|  |  |

1. 

1. 

|  |  |
| --- | --- |
| *x* | *y* |
|  |  |
|  |  |
|  |  |
|  |  |

1. 

|  |  |
| --- | --- |
| *x* | *y* |
|  |  |
|  |  |
|  |  |
|  |  |

1. 

|  |  |
| --- | --- |
| *x* | *y* |
|  |  |
|  |  |
|  |  |
|  |  |

1. 

|  |  |
| --- | --- |
| *x* | *y* |
|  |  |
|  |  |
|  |  |
|  |  |