9th Grade Final Review

Part I. Read each situation and graph or construct a table of the given information

1. A shoe store is having a sale. The first pair of shoes sells for $40. The second pair sells for half price, or $20. The next pair sells for half of that, and so on. Make a table showing the cost of 1 to 4 pairs of shoes.
2. A pelican flies above the water searching for fish. Sketch a graph of its altitude from takeoff from shore to diving to the water to catch a fish. Label each section.

Part II Express each relationship as a table, a graph, and as a mapping diagram

1. (-1,2), (2, 51), (1, 3), (8, 22), (9, 51)

Part III Give the Domain and Range of each relation

|  |  |
| --- | --- |
| x | y |
| 3 | 9 |
| 5 | 25 |
| 2 | 4 |
| 8 | 81 |
| 6 | 36 |

Part IV Determine a relationship between X and Y values in each relation.

1.

|  |  |
| --- | --- |
| x | y |
| 5 | 1 |
| 10 | 2 |
| 15 | 3 |
| 20 | 4 |
| 25 | 5 |

2.

|  |  |
| --- | --- |
| x | y |
| 1 | 1 |
| 2 | 0 |
| 3 | 1 |
| 4 | 2 |
| 5 | 3 |

1. (1,4),(2,7),(3,10),(4,13)

Part V Evaluate each function for every imput value

Part VI Graph each function for the given domain