Name:

Algebra

Review (8.6 – 8.8)

**State the domain and range of each function**

**Give each correspondence as a set of ordered pairs**

**Draw a bar graph for the function**

1.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Animal | Antelope | Cheetah | Greyhound | Racehorse | Rabbit |
| Maximum Speed (mi/h) | 60 | 70 | 40 | 50 | 18 |

2. Draw a broken-line graph for the function shown in the table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Month | Apr. | May | June | July | Aug | Sept |
| Rainfall (mm) | 60 | 50 | 85 | 78 | 40 | 52 |

**Find the range of each function**

3. f(x) = 3x – 2, D = {1, 2, 3} 4. h(x) = 3y + 1, D = {-3, 0, 1}

5. f(x) = 2 – 4x, D = {-1, 0, 1} 6. q(n) = 4n – 3, D = {0, 2, 3}

7. h(x) = b2 – b – 2, D = {-1, 0, 2}

**Use the vertex and at least four other points to graph the equation**

8. y = -2x2 9. y = -x2 – x + 2

10. y = x2 + 2x – 3