

Quadratic Tables and Symmetry



Name: \_\_\_\_\_ Date: \_\_\_\_\_

Use the material to work through each task. Show the requested response.

A quadratic rule

For  $y = x^2$ , opposite  $x$  values give equal  $y$  values. Its graph curves rather than forming a straight line.

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

1. Find  $y$  when  $x = -3$  for  $y = x^2$ .

\_\_\_\_\_

2. Which two  $x$  values in the table give  $y = 4$ ?

\_\_\_\_\_

## Quadratic Tables and Symmetry



Name: \_\_\_\_\_ Date: \_\_\_\_\_

3. For  $y = x^2 + 2$ , find  $y$  when  $x = 0$ .

---

4. From  $x = 0, 1, 2$ ,  $y = 0, 1, 4$ . Are the  $y$  increases constant?

---

5. Plot the five table points and connect them with a smooth curve.

6. Why is this table not a linear relationship?

---

---

---