

Quadratic Tables and Symmetry



Use the matching sheet ID when checking answers.

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

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

Answer: 9

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

Answer: -2 and 2

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

Answer: 2

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

Answer: no; increases are 1 and 3

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

Look for:

- Uses a consistent scale.
- Plots all listed coordinates.

One possible response: A U-shaped curve through the listed points.

6. Why is this table not a linear relationship?

Look for:

- Connects the table differences with nonlinearity.

One possible response: Equal x steps do not produce equal y changes.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.