

Relations Worksheet Answer Key

They Make Some Good Points

For each relation, write an equation that describes the connections between the two coordinates x and y .

1. $\{(1, 1), (-1, -1), (99, 99), (5, 5)\}$

$$y = x$$

6. $\{(2, 1), (1, \frac{1}{2}), (3, 1.5), (48, 24)\}$

$$y = \frac{1}{2}x$$

2. $\{(1, 0), (2, 1), (-2, -1), (7, 6)\}$

$$y = x - 1$$

7. $\{(-1, -2), (0, 0), (2, 4), (1, 1)\}$

No equation fits the above relation.

3. $\{(3, 9), (0, 0), (1, 1), (-2, 4)\}$

$$y = x^2$$

8. $\{(-9, -10), (8, 7), (99, 100), (-27, -28)\}$

$$x - y = 1$$

4. $\{(1, 0), (\pi, 0), (5, 0)\}$

$$y = 0$$

9. $\{(0, 2), (-1, 3), (4, 18), (-2, 6)\}$

$$y = x^2 + 2$$

5. $\{(1, 5), (6, 0), (-86, 92), (2, 4)\}$

$$x + y = 6$$

10. $\{(0, 1), (3, 2), (8, 3), (-1, 0), (1, \sqrt{2})\}$

$$y = \sqrt{x + 1}$$

©2012 Shmoop University, Inc. All rights reserved. For classroom use only. Want to print this out for your classroom? Go for it. All other reproduction and distribution is prohibited.

<http://www.shmoop.com/algebra/>
Shmoop will make you a better lover (of literature, math, life...)