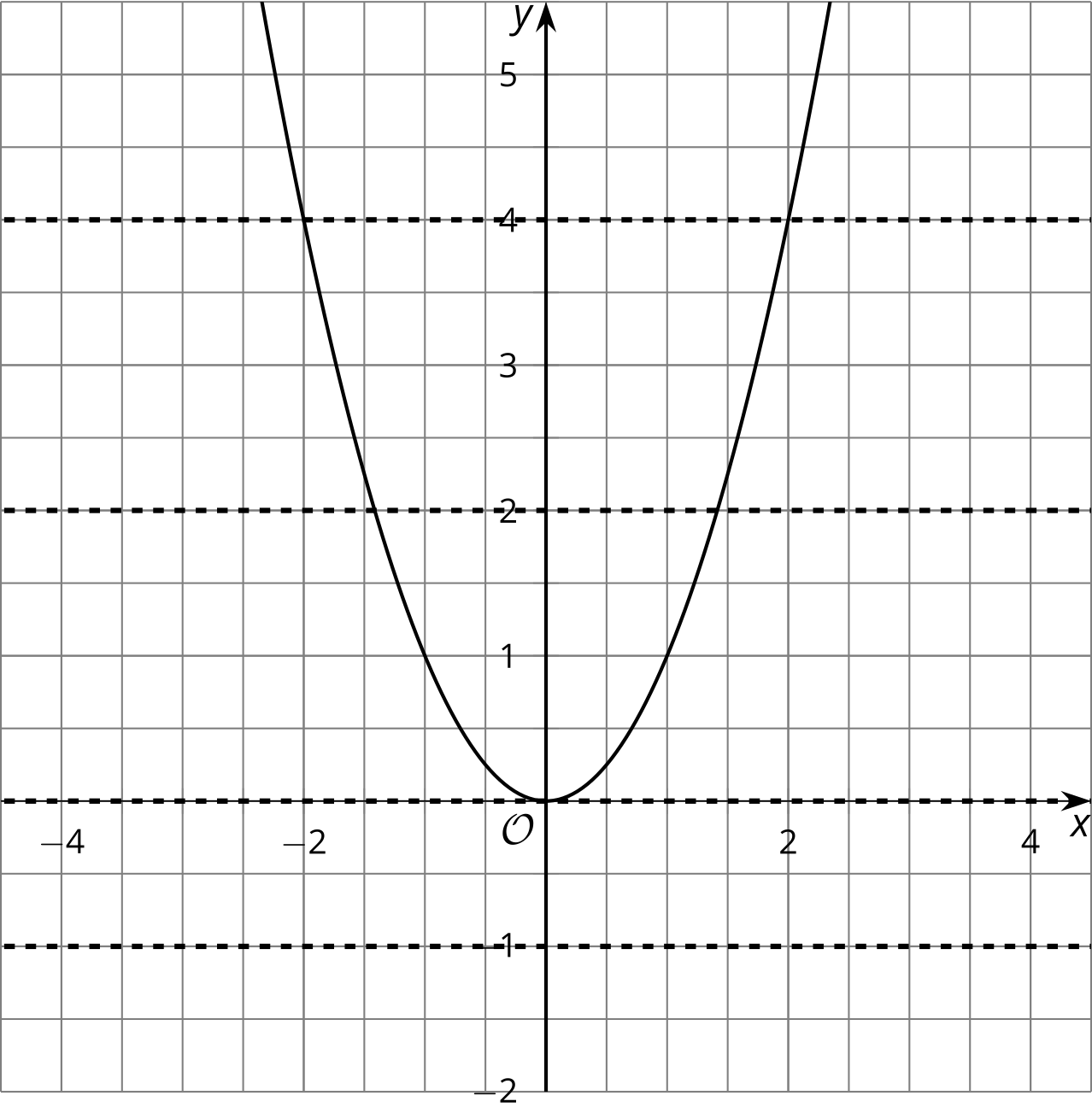
## Unit 3 Lesson 6: Squares and Square Roots

### 1 Math Talk: Four Squares (Warm up)

#### Student Task Statement

Find the solutions of each equation mentally.



### 2 Finding Square Roots

#### Student Task Statement

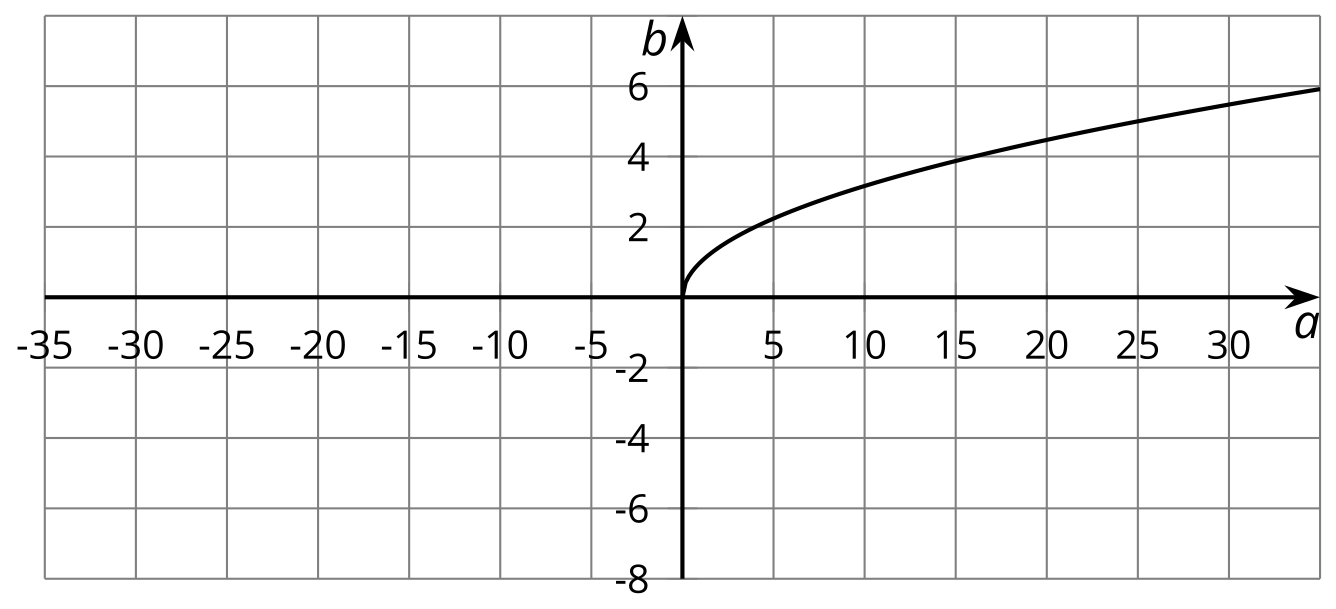
Clare was adding and , and at first she wrote . But then she remembered that 2 and -2 both square to make 4, and that 3 and -3 both square to make 9. She wrote down all the possible combinations:

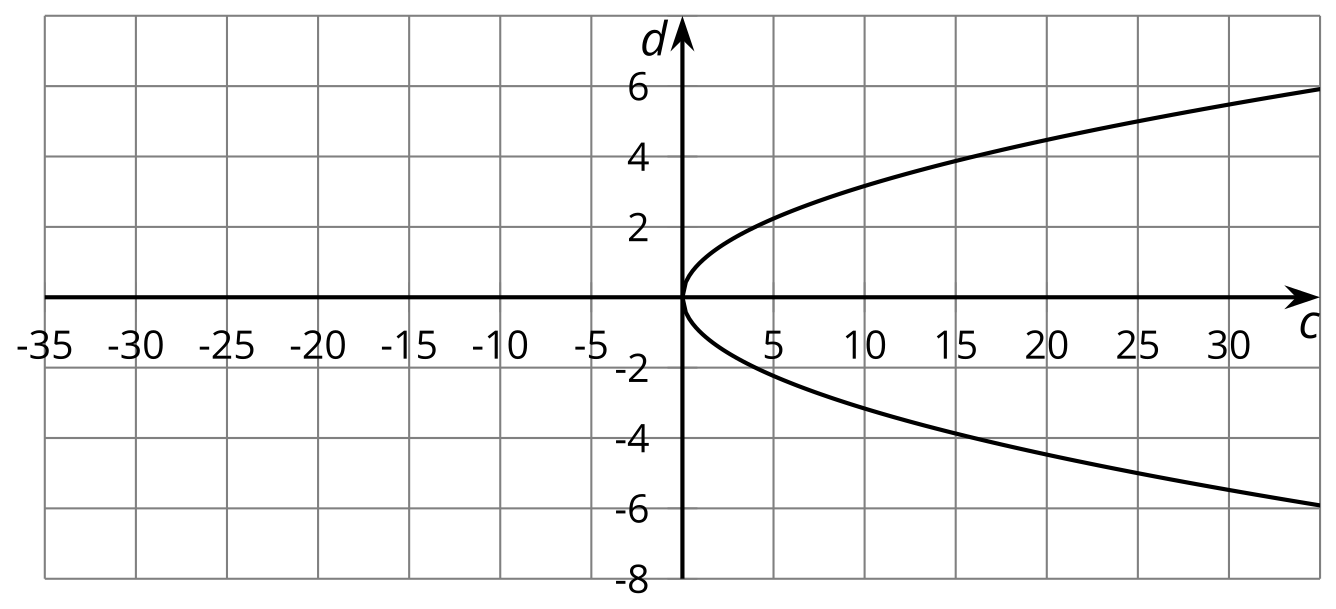
    2 + 3 = 5  
    2 + (-3) = -1  
    (-2) + 3 = 1  
    (-2) + (-3) = -5

Then she wondered, “Which of these are the same as ? All of them? Or only some? Or just one?”

How would you answer Clare’s question? Give reasons that support your answer.

#### Activity Synthesis

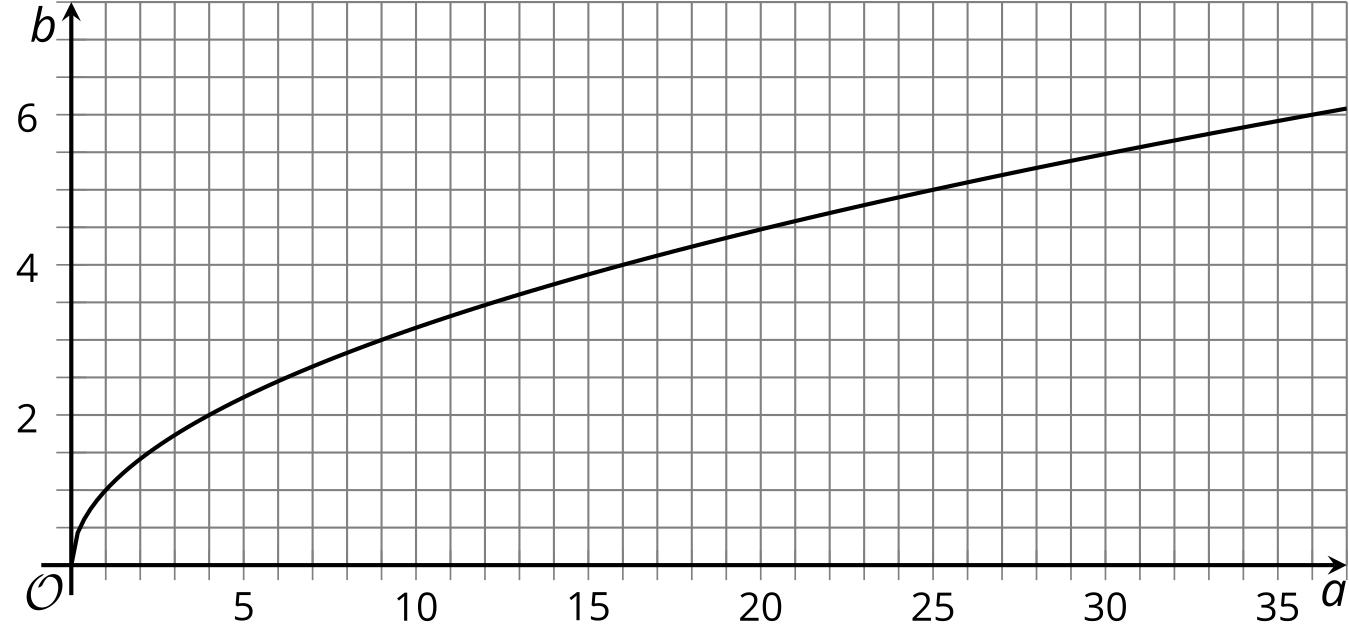




### 3 One Solution or Two?

#### Student Task Statement

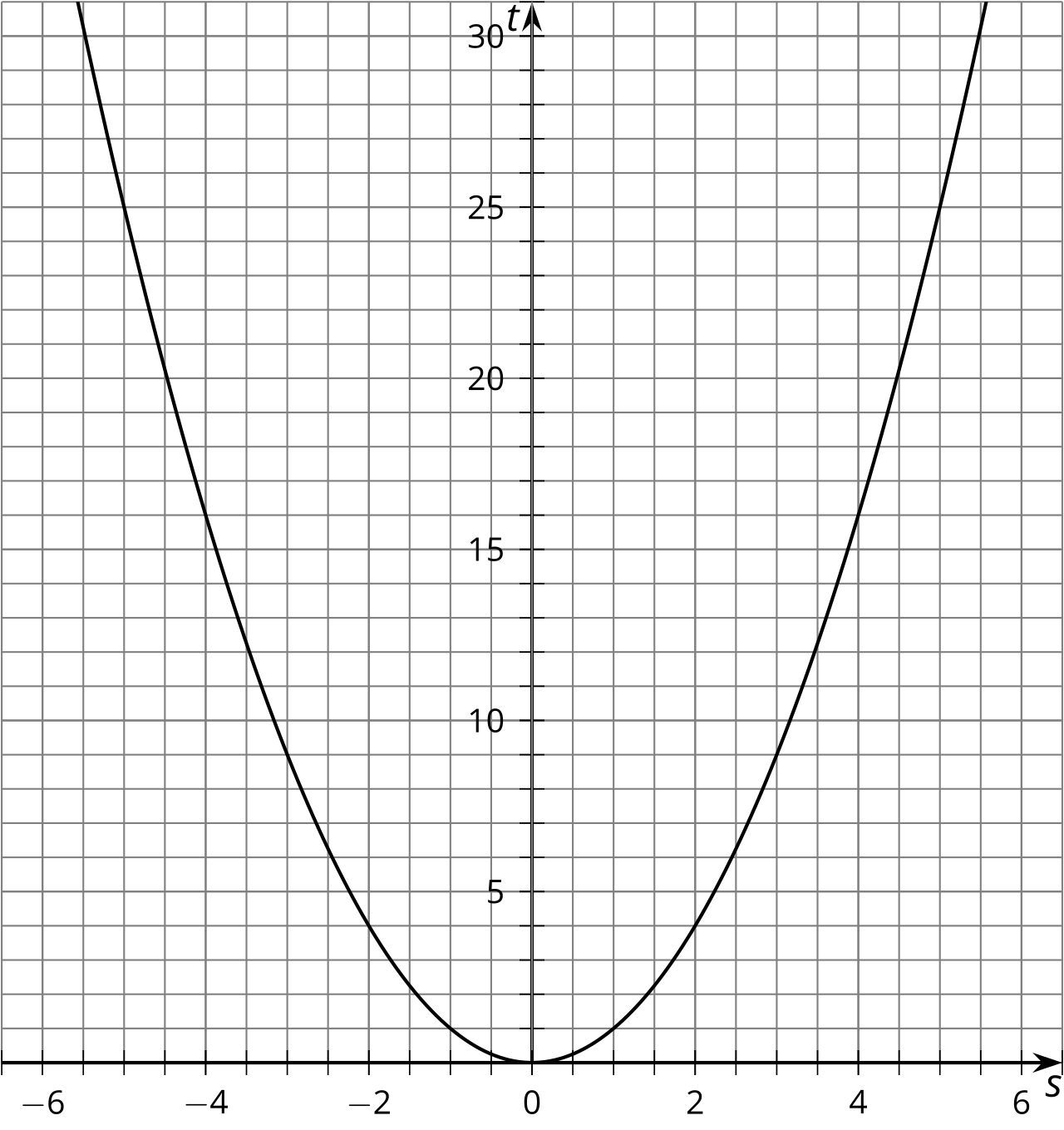
1. The graph of is shown.

* 
  1. Complete the table with the exact values and label the corresponding points on the graph with the exact values.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | * + 1 | * + 4 | * + 9 | * + 12 | * + 16 | * + 20 |
|  |  |  |  |  |  |  |

* 1. Label the point on the graph that shows the solution to .
  2. Label the point on the graph that shows the solution to .
  3. Label the point on the graph that shows the solution to .

1. The graph of is shown.
   1. Label the point(s) on the graph that show(s) the solution(s) to .
   2. Label the point(s) on the graph that show(s) the solution(s) to .
   3. Label the point(s) on the graph that show(s) the solution(s) to .

* 



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