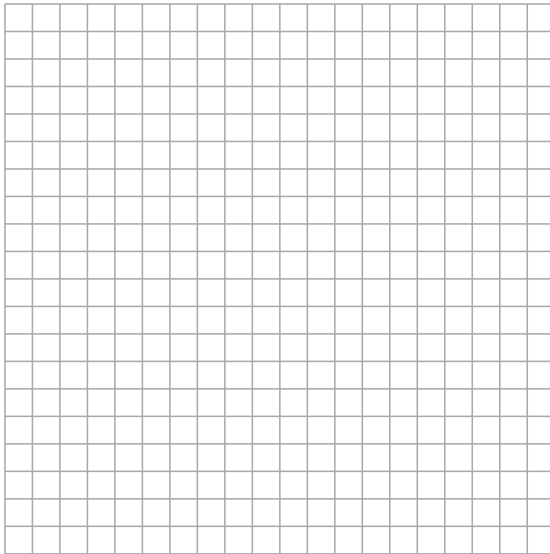
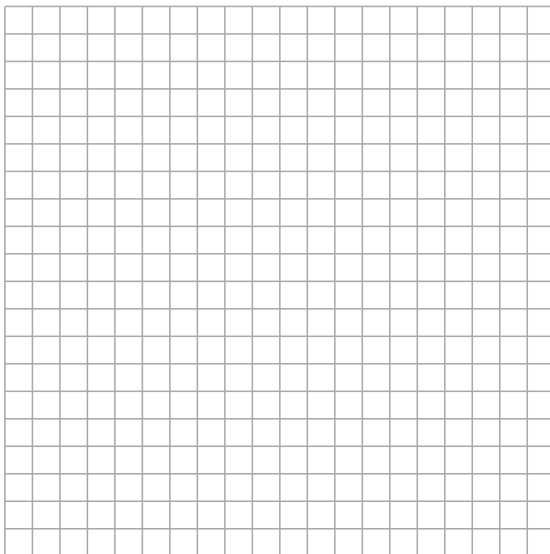


## Figure 4.7: Sample Mathematical Task—Reasoning With Square Roots

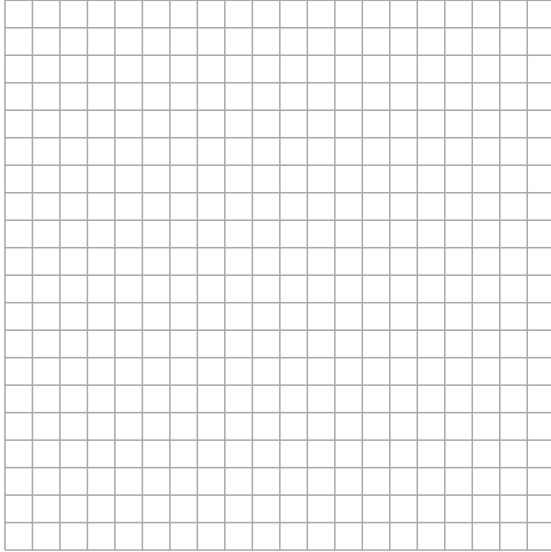
- Graph the function  $y = \sqrt{x}$  using graph paper and pencil.
  - Why is the graph of  $y = \sqrt{x}$  contained in the first quadrant?
  - Why is  $x$  never negative?
  - Why is  $y$  never negative?
- Use a graphing calculator tool to solve the following equations and inequalities. Show the graph for each solution.
  - $x = \sqrt{x}$



- $x < \sqrt{x}$



c.  $x > \sqrt{x}$



3. What are the limits to the graphing calculator solution in problem 2b?