

ANSWER PRESENTATION TOOL

Algebra 1 - Student Edition

10

Chapter Test

1-18

ALL

EVEN

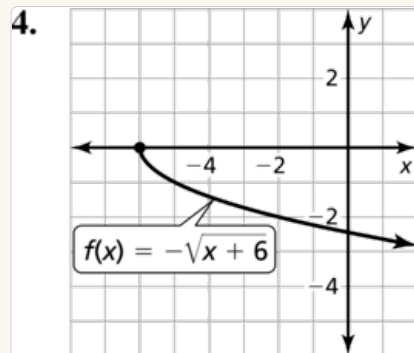
ODD

Show Solution

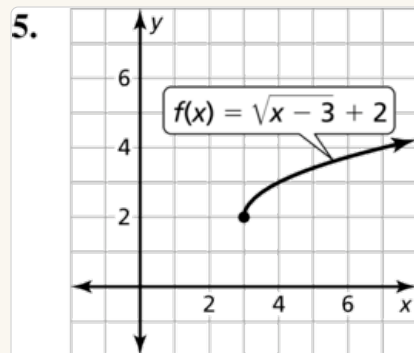
1. $g(x) = \frac{x + 8}{5}$

2. $g(x) = \left(\frac{x + 1}{2}\right)^2 - 3, x \geq -1$

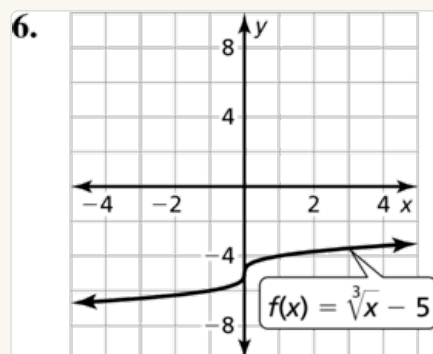
3. $g(x) = \sqrt{12 - 3x}$



$x \geq -6; y \leq 0$; The graph of f is a translation 6 units left and a reflection in the x -axis of the graph of g .

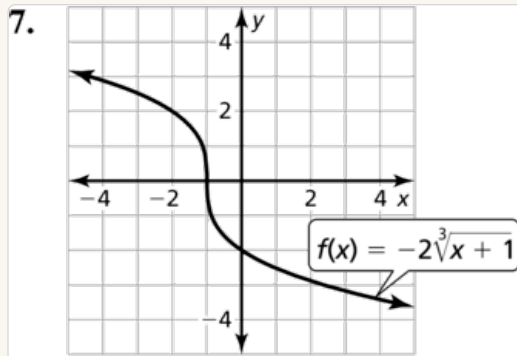


$x \geq 3; y \geq 2$; The graph of f is a translation 3 units right and 2 units up of the graph of g .



all real numbers; all real numbers; The graph of f is a translation 5 units down of the graph of g .

translation 5 units down of the graph of g .



all real numbers; all real numbers; The graph of f is a vertical stretch by a factor of 2, a reflection in the x -axis, and a translation 1 unit left of the graph of g .

8. $x = 36$

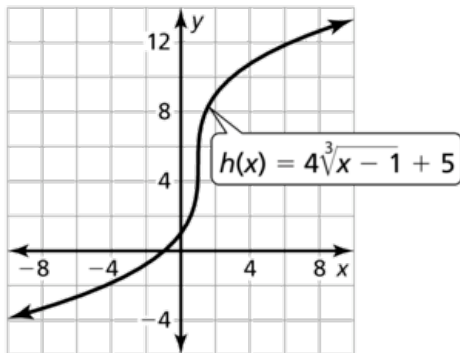
9. $x = 44$

10. $x = 3$

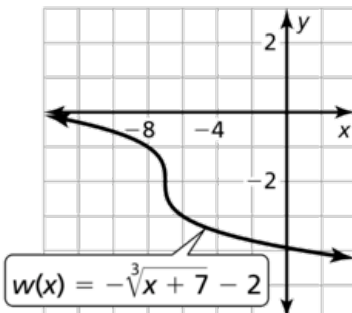
11. $x = 4$

12. The solution $x = 2$ is extraneous, because it gives a value of $2 - 5 = -3$ on the left side, which cannot equal the radical expression on the right side of the equation.

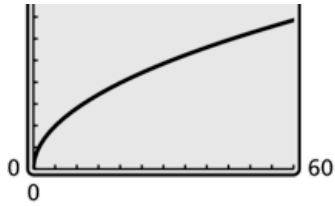
13. Translate 1 unit right, stretch vertically by a factor of 4, and translate 5 units up to obtain the graph of h .



14. Translate 7 units left, reflect in the x -axis, and translate 2 units down to obtain the graph of w .



15. a. $\sqrt[4]{40}$



domain: $h \geq 0$; range: $v \geq 0$

- b. at least 40 m
- c. decreases

16. a. 16°C

b. 5.5 sec

17. *Sample answer:* You can exclude values of x that are less than 3.

18. *Sample answer:* $f(x) = \sqrt{-x} + 9$