

# ANSWER PRESENTATION TOOL

Algebra 1 - Student Edition ▾

10 ▾

Chapter Review ▾

1-23



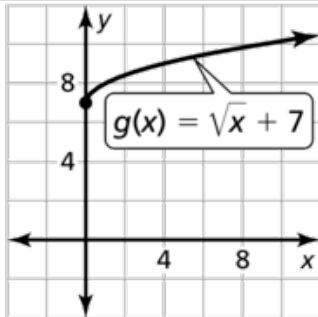
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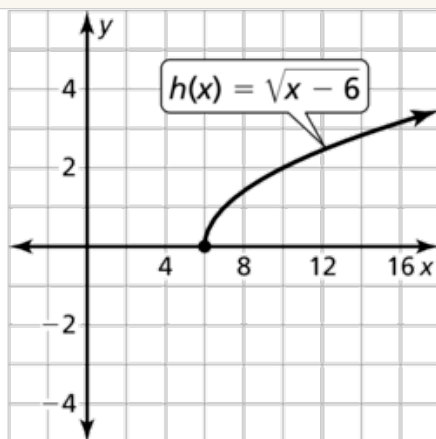
Show Solution

1.



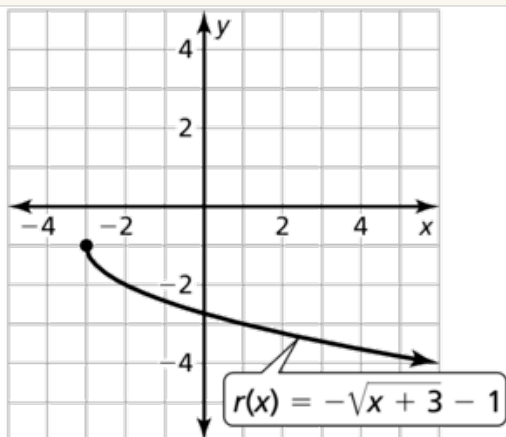
$x \geq 0; y \geq 7$ ; The graph of  $g$  is a translation 7 units up of the graph of  $f$ .

2.



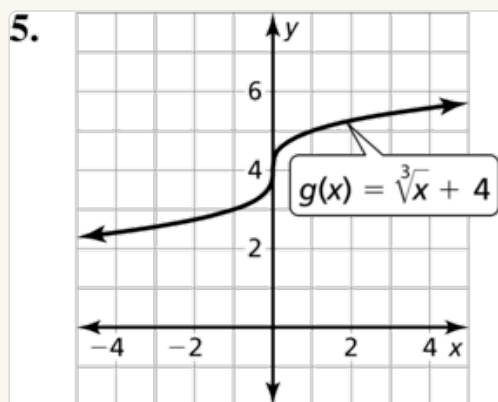
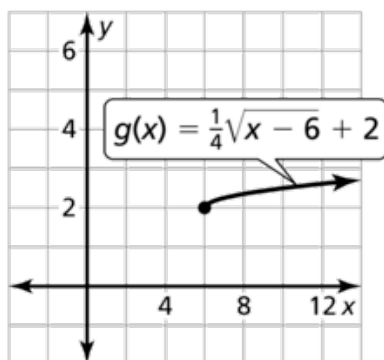
$x \geq 6; y \geq 0$ ; The graph of  $h$  is a translation 6 units right of the graph of  $f$ .

3.

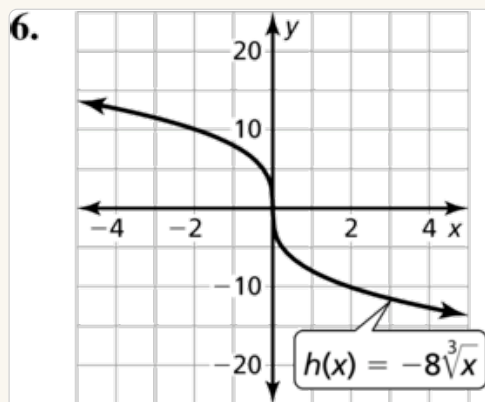


$x \geq -3; y \leq -1$ ; The graph of  $r$  is a translation 3 units left, a reflection in the  $x$ -axis, and a translation 1 unit down of the graph of  $f$ .

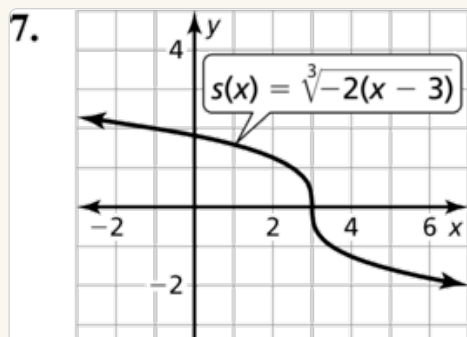
4. Translate 6 units right, shrink vertically by a factor of  $\frac{1}{4}$ , and translate 2 units up to obtain the graph of  $g$ .



The graph of  $g$  is a translation 4 units up of the graph of  $f$ .



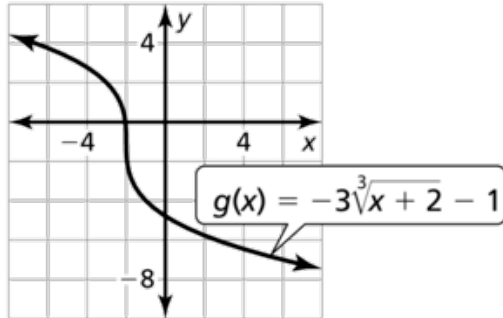
The graph of  $h$  is a vertical stretch by a factor of 8 and a reflection in the  $x$ -axis of the graph of  $f$ .





The graph of  $s$  is a reflection in the  $y$ -axis, a translation 3 units right, and a horizontal shrink by a factor of  $\frac{1}{2}$  of the graph of  $f$ .

8. Stretch vertically by a factor of 3, reflect in the  $x$ -axis, translate 2 units left, and translate 1 unit down to obtain the graph of  $g$ .



9. The average rate of change of  $r$  is about

$0.625 \div \left(\frac{\sqrt[3]{4}}{8}\right) \approx 3.15$  times greater than the average rate of change of  $p$  over the interval  $x = 0$  to  $x = 8$ .

10.  $x = 100$

11.  $x = 28$

12.  $x = 9$

13.  $x = 4$

14.  $x = 14$

15. no solution

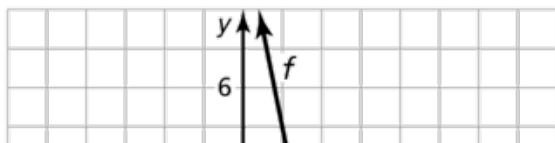
16.  $16\pi \approx 50.3 \text{ in.}^3$

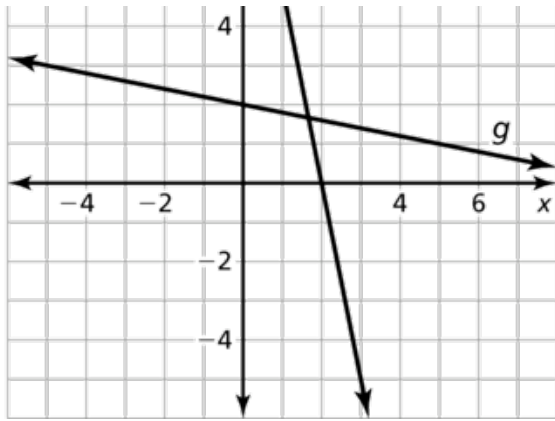
17.  $(-10, 1), (-4, 3), (4, 5), (14, 7), (26, 9)$

18.

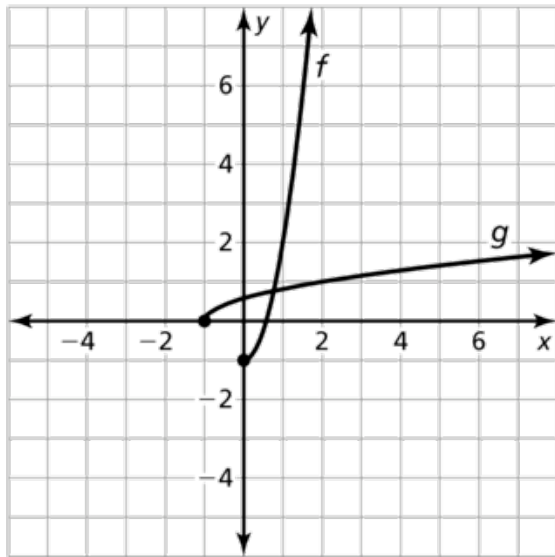
<b>Input</b>	6	3	0	-3	-6
<b>Output</b>	-4	-2	0	2	4

19.  $g(x) = \frac{10 - x}{5}$

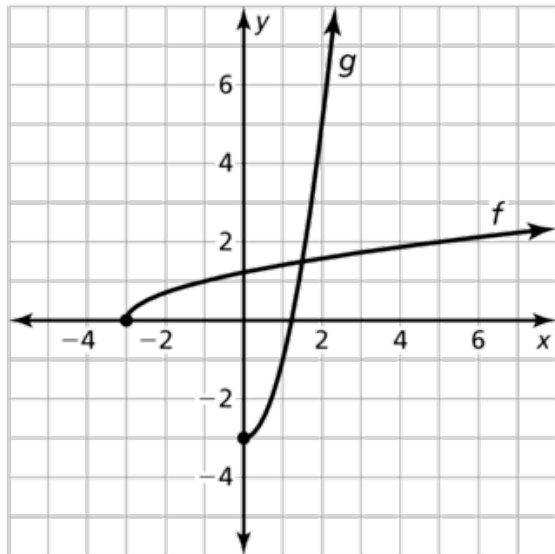




20.  $g(x) = \frac{1}{3}\sqrt{3(x+1)}$



21.  $g(x) = 2x^2 - 3, x \geq 0$



22. not a function

23.  $a = 210 - 1.25h; 175$