

ANSWER PRESENTATION TOOL

Algebra 2 - Student Edit

1

1 - Practice

1-23,33

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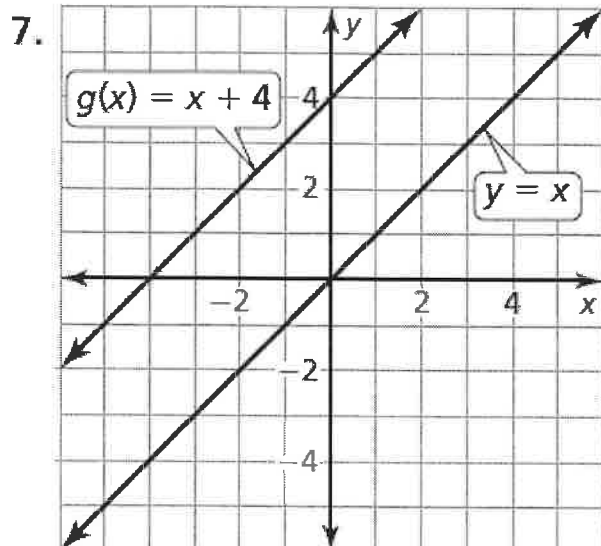
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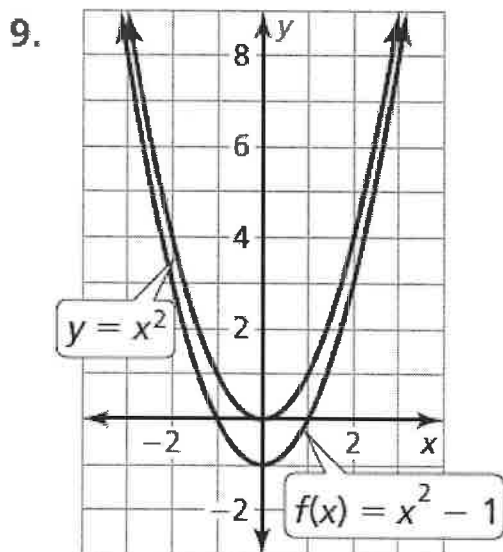
1. The function f belongs to the family of absolute value functions. The graph of $f(x) = 2|x + 2| - 8$ is a horizontal translation 2 units left followed by a vertical stretch and a vertical translation 8 units down of the parent absolute value function. The domain of each function is all real numbers, but the range of f is $y \geq -8$, and the range of the parent function is $y \geq 0$.

3. The function f belongs to the family of linear functions. The graph of $f(x) = 5x - 2$ is a vertical stretch followed by a vertical translation 2 units down of the parent linear function. The domain and range of each function is all real numbers.

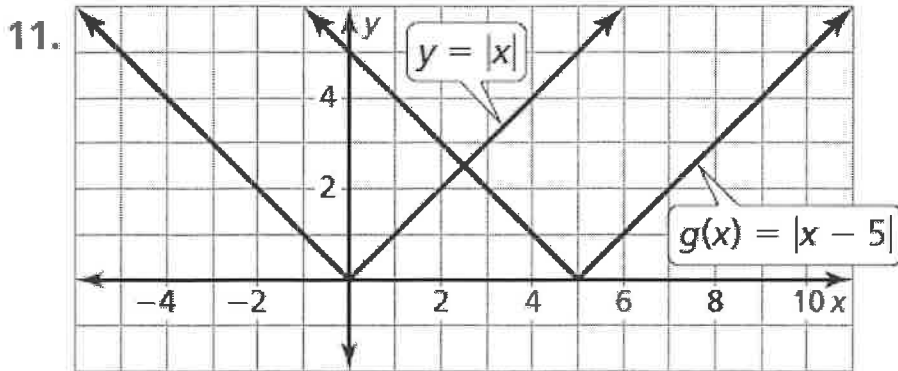
5. The function f belongs to the family of quadratic functions.



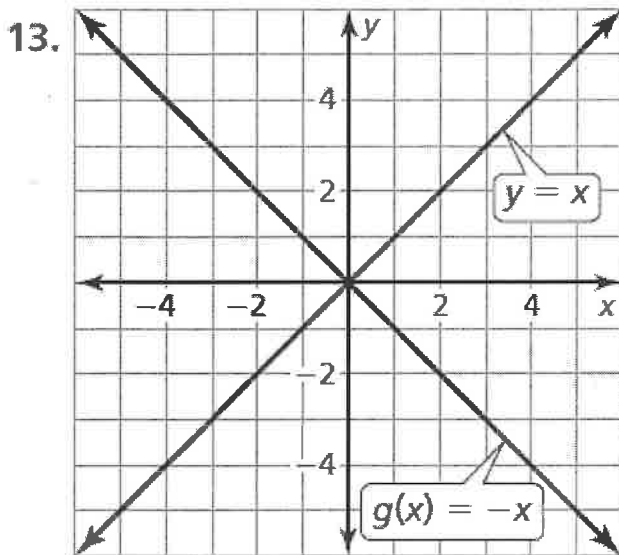
So, the graph of $g(x) = x + 4$ is a vertical translation 4 units up of the parent linear function.



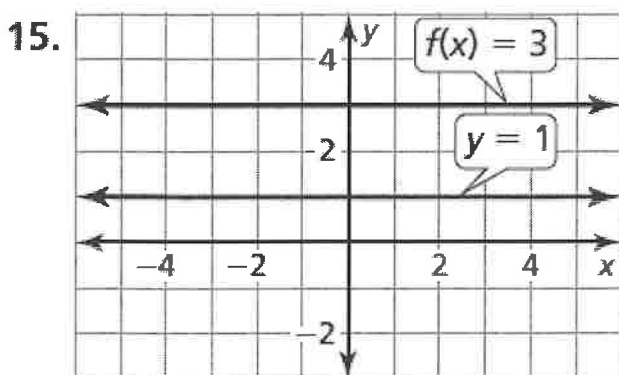
So, the graph of $f(x) = x^2 - 1$ is a vertical translation 1 unit down of the parent quadratic function.



So, the graph of $g(x) = |x - 5|$ is a horizontal translation 5 units right of the parent absolute value function.

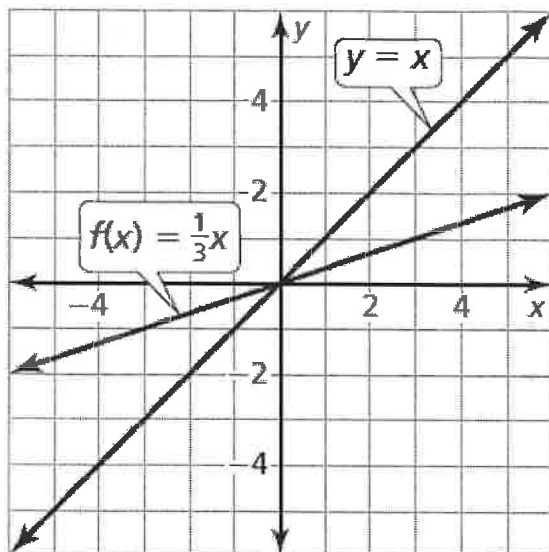


So, the graph of $g(x) = -x$ is a reflection in the x -axis of the parent linear function.



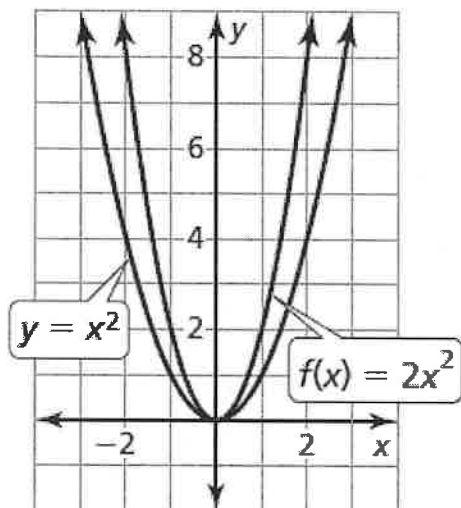
So, the graph of $f(x) = 3$ is a vertical translation 2 units up of the parent constant function.

17.



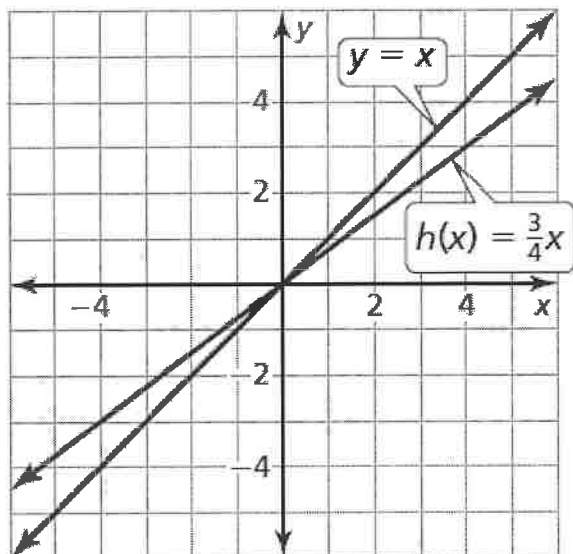
So, the graph of $f(x) = \frac{1}{3}x$ is a vertical shrink of the parent linear function.

19.



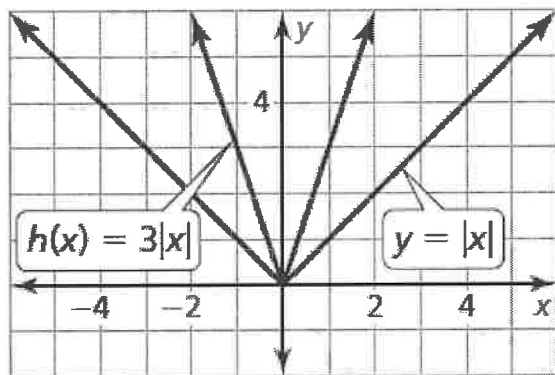
So, the graph of $f(x) = 2x^2$ is a vertical stretch of the parent quadratic function.

21.



So, the graph of $h(x) = \frac{3}{4}x$ is a vertical shrink of the parent linear function.

23.



So, the graph of $h(x) = 3|x|$ is a vertical stretch of the parent absolute value function.

33. The graph of g is a horizontal translation 3 units left of the graph of f , not 3 units right.

