

ANSWER PRESENTATION TOOL

Algebra 2 - Student Edit

1

1 - Practice

2-4,8-24,34

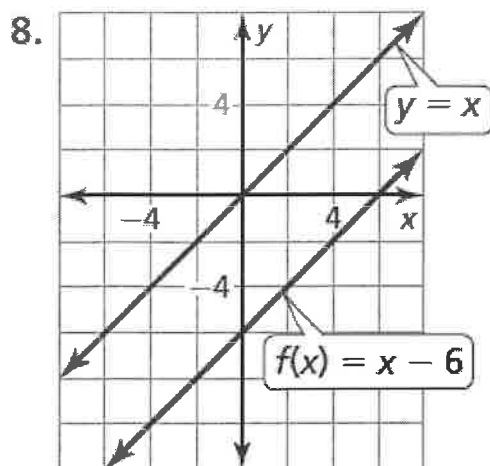
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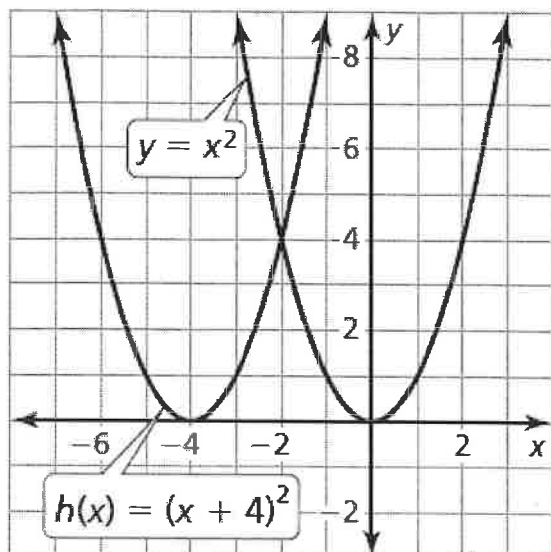
2. The function f belongs to the family of quadratic functions. The graph of $f(x) = -2x^2 + 3$ is a reflection in the x -axis followed by a vertical stretch and a vertical translation 3 units up of the parent absolute value function. The domain of each function is all real numbers, but the range of f is $y \leq 3$, and the range of the parent quadratic function is $y \geq 0$.

4. The function f belongs to the family of constant functions. The graph of $f(x) = 3$ is a vertical translation 2 units up of the parent constant function. The domain of each function is all real numbers, but the range of f is $y = 3$, and the range of the parent function is $y = 1$.



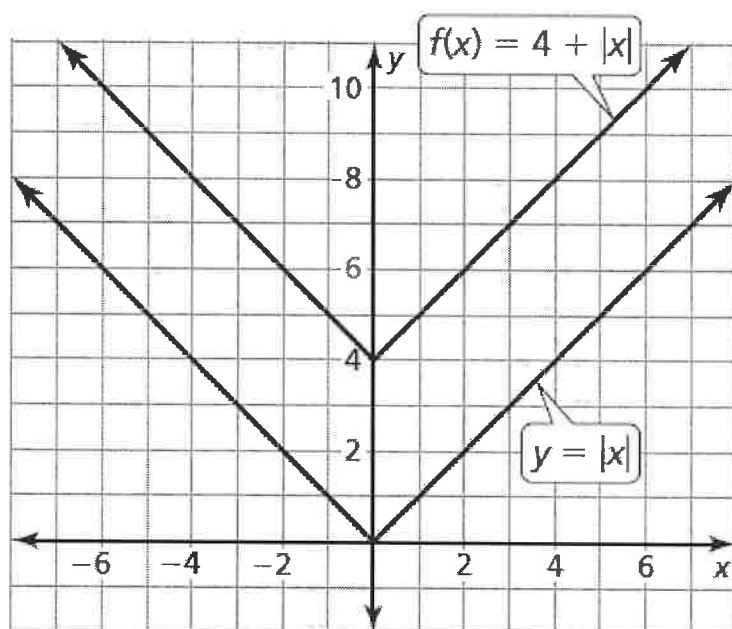
So, the graph of $f(x) = x - 6$ is a vertical translation 6 units down of the parent linear function.

10.



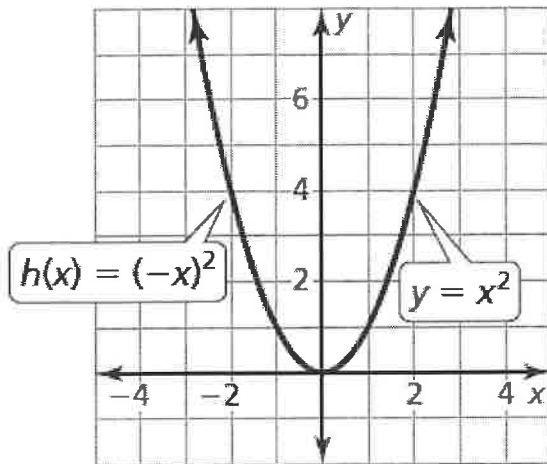
So, the graph of $h(x) = (x + 4)^2$ is a horizontal translation 4 units left of the parent quadratic function.

12.



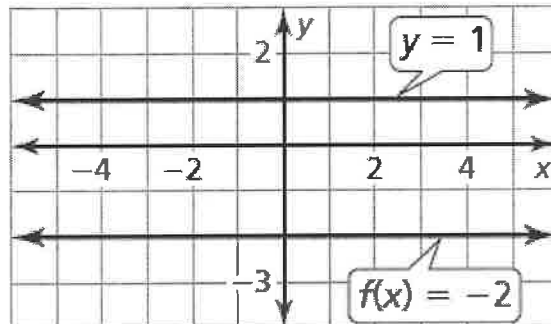
So, the graph of $f(x) = 4 + |x|$ is a vertical translation 4 units up of the parent absolute value function.

14.



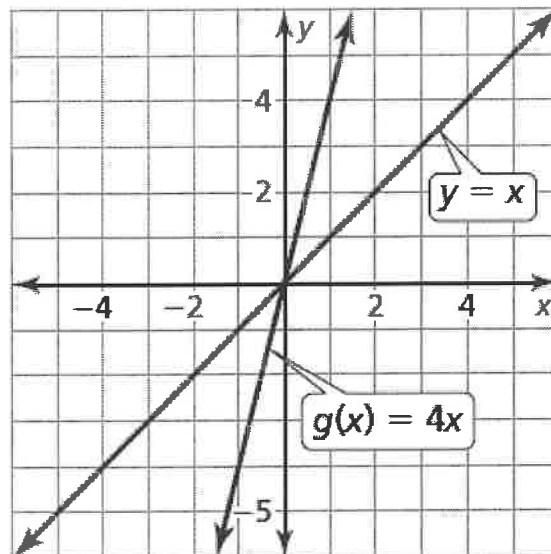
So, the graph of $g(x) = (-x)^2$ is a reflection in the y-axis of the parent quadratic function.

16.



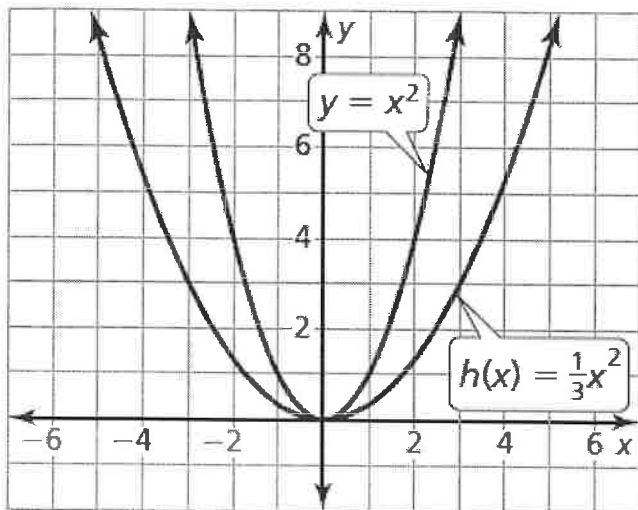
So, the graph of $f(x) = -2$ is a vertical translation 3 units down of the parent constant function.

18.



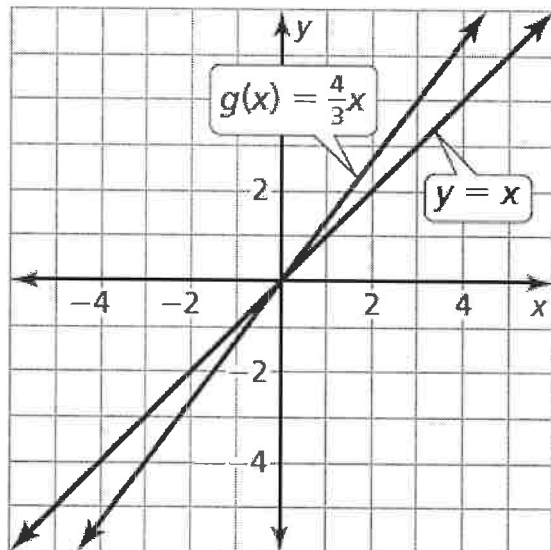
So, the graph of $g(x) = 4x$ is a vertical stretch of the parent linear function.

20.

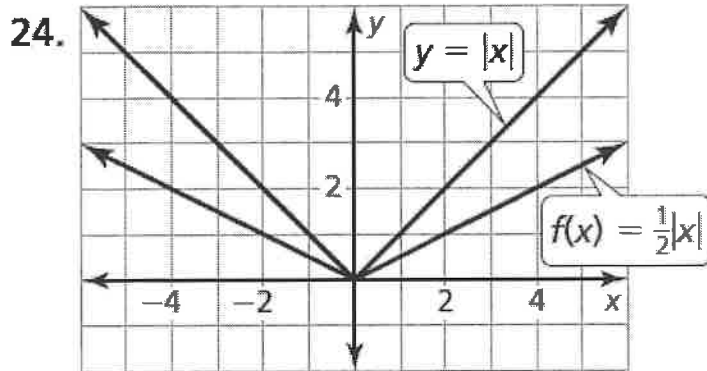


The graph of h is a vertical shrink of the parent quadratic function.

22.



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



So, the graph of $f(x) = \frac{1}{2}|x|$ is a vertical shrink of the parent absolute value function.

34. The error is there is no vertical shrink of the parent quadratic function. The graph is a reflection in the x -axis followed by a vertical stretch of the parent quadratic function.

