

For problems 5-8 given the parent function and a description of the transformation, write the equation of the transformed function, $f(x)$.

5. Absolute value—vertical shift down 5, horizontal shift right 3. _____

6. Linear—vertical shift up 5. _____

7. Square Root —vertical shift down 2, horizontal shift left 7. _____

8. Quadratic— horizontal shift left 8. _____

9. $f(x) = |x + 5| - 2$ Parent: _____
Transformation: _____

10. $g(x) = x^2 - 6$ Parent: _____
Transformation: _____

11. $f(x) = |x - 1|$ Parent: _____
Transformation: _____

12. $h(x) = \sqrt{x} + 4$ Parent: _____
Transformation: _____

13. $g(x) = 2x - 2$ Parent: _____
Transformation: _____

14. $g(x) = -(x+1)^2 + 3$ Parent: _____
Transformation: _____

15. $h(x) = -x^2 + 1$ Parent: _____
Transformation: _____

16. $h(x) = \sqrt{x+2} - 5$ Parent: _____
Transformation: _____