

For each problem, write the equation of the parent function and list all transformations.

1. $f(x) = 3 * \left(\frac{1}{2}\right)^{x-5}$

2. $f(x) = (2)^{x+4} - 2$

3. $f(x) = -4 * (3)^{x-7} + 2$

4. $f(x) = \sqrt{x+4} - 6$

5. $f(x) = -3\sqrt{x-5} + 10$

6. $f(x) = -4\sqrt[3]{x-3} + 6$

7. $f(x) = 2\sqrt[3]{x+10} - 11$