

For each of the following functions, list the parent function and then describe the reflections, translations, and dilations to transform the parent function into the given function. (See also Section 3-2, p 139-140.)

Function	Parent Function	Transformations
$f(x) = 3x^2 + 2$		
$f(x) = -x^3 + 3$		
$f(x) = \sqrt{x - 6}$		
$f(x) = 4x^2 - 1$		
$f(x) = 3(x - 1)^3 + 7$		
$f(x) = 2(x + 4)^2 + 2$		
$f(x) = \frac{x^2}{5} + 3$		
$f(x) = \frac{\sqrt{x}}{3} + 2$		
$f(x) = \frac{x^2 + 15}{5}$		
$f(x) = \frac{1}{x - 7}$		