

Name: _____ Date: _____

Recursive and Explicit Equations

Functions	Recursive:	Explicit:
Linear	$f(0) = b$ $f(x) = f(x - 1) + c$ Where c is the constant growth.	$f(x) = mx + b$
Exponential	$f(0) = b$ $f(x) = f(x - 1) * r$ Where r is the ratio to multiply by. This is either a whole number or fraction.	$f(x) = b * r^x$
Quadratic	$f(0) = b$ $f(x) = f(x - 1) + mx + b$ $mx + b$ is the linear growth.	$f(x) = ax^2 + bx + c$ $a = 2nd\ difference \div 2$ $b = After\ a\ and\ c,$ $use\ any\ point\ to\ find\ b.$ $c = y\ when\ x = 0$