

Terms	Explicit	Recursive
a) -4, -1, 2, 5	$f(x) = -4 + 3(x-1)$	$f(x+1) = f(x) + 3$
b) 1.5, 3, 6, 12	$f(x) = 1.5 \cdot (2)^{x-1}$	$f(x+1) = f(x) \cdot 2$
c) 0, 1, 4, 9	$f(x) = (x-1)^2$	$f(x+1) = f(x) + 2x - 1$
d) 2, 3.5, 5, 6.5	$f(x) = 2 + 1.5(x-1)$	$f(x+1) = f(x) + 1.5$
e) 1, 1, 2, 3, 5, 8	$f(x) = \frac{(1+\sqrt{5})^x - (1-\sqrt{5})^x}{2 \cdot \sqrt{5}}$	$f(x+1) = f(x) + f(x-1)$
f) 9, 7, 5, 3	$f(x) = 9 + 2(x-1)$	$f(x+1) = f(x) - 2$
g) 48, 24, 12	$f(x) = 48 \cdot \left(\frac{1}{2}\right)^{x-1}$	$f(x+1) = f(x) \cdot \frac{1}{2}$
h) 27, 9, 3, 1	$f(x) = 27 \cdot \left(\frac{1}{3}\right)^{x-1}$	$f(x+1) = f(x) \cdot \frac{1}{3}$
i) 8, 2, 0, 2	$f(x) = 2(x-3)^2$	$f(x+1) = f(x) + 4x - 10$
j) $\frac{5}{4}, \frac{5}{2}, 5, 10$	$f(x) = \frac{5}{4} \cdot 2^{x-1}$	$f(x+1) = f(x) \cdot 2$