Recursive functions

f(0) = 1
f(1) = 2
f(n) = 2f(n-1) +3
f(n-2)
f(5) = ?

Recursive functions

f(0) = 1
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f(n) = 2f(n-1) +3
f(n-2)
f(5) = ?

f(n) = 2f(n-1) +3 f(n-2)
f(3) = 2f(2) + 3f(1)
     = 2*7 + 3*2
     = 20

f(n) = 2f(n-1) +3 f(n-2)
f(2) = 2f(1) + 3f(0)
     = 2*2 + 3*1
     = 7

f(n) = 2f(n-1) +3 f(n-2)
f(4) = 2f(3) + 3f(2)
     = 2*20 + 3*7
     = 61

Recursive functions

$f(n) = 2f(n-1) + 3 f(n-2)$

$f(5) = 2f(4) + 3f(3)$

$\quad = 2*61 + 3*20$

$\quad = 182$