

RECURSIVE QUANTIC FORMULA

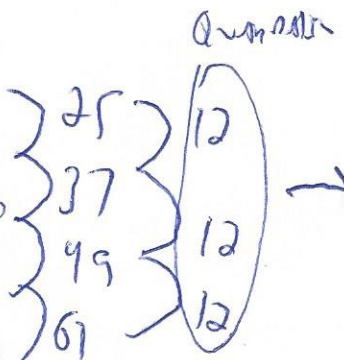
$$f(x) = f(x-1) + \text{LINEAR}$$

$$f(x) = f(x-1) + mx + b$$



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x	y
1	10
2	35
3	72
4	121
5	182



$$f(x) = f(x-1) + 12x + b$$

$$72 = f(3-1) + 12(3) + b$$

$$72 = f(2) + 36 + b$$

$$72 = 35 + 36 + b$$

$$72 = 71 + b$$

$$-71 \quad -71$$

$$1 = b$$

$$f(x) = f(x-1) + 12x + 1, \quad f(1) = 10$$