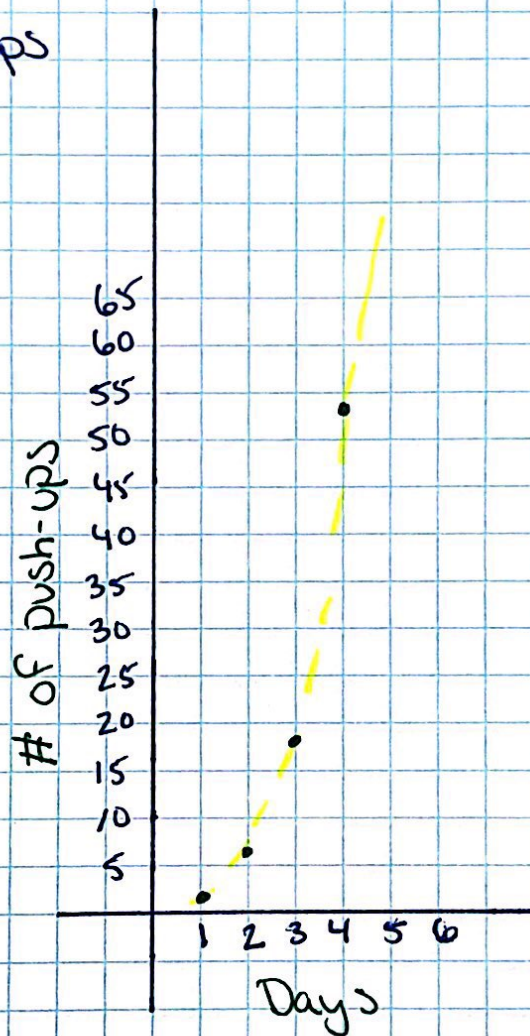


1.4 Aly's Push-Ups

Aly starts with two push-ups on the first day, 6 push ups on the second day, 18 push ups on the third day and continues ~~that~~ the pattern.

How many push-ups will she do on day 5?

day	# of push-ups
1	2
2	6 $\downarrow \cdot 3$
3	18 $\downarrow \cdot 3$
4	54
5	162



Geometric
Exponential Curve

Recursive

$$f(0) = \#$$

or

$$f(1) = \#$$

$$f(n) = r \cdot f(n-1)$$

Explicit

$$f(n) = f(0) r^n$$

or

$$f(n) = f(1) r^{(n-1)}$$