

Algebra 2

11-01A Defining and Using Sequences

Sequence

- Function whose domain are _____
- List of numbers that follow a _____
- 2, 4, 6, 8, 10
 - _____
- 2, 4, 6, 8, 10, ...
 - _____

Rule

$$a_n = 2n$$

- Domain: (n)
 - Term's _____ (1st, 2nd, 3rd...)
- Range: (a_n)
 - Term's _____ (2, 4, 6, 8...)

Write the first four terms of

$$a_n = \frac{1}{2}n - 3$$

$$f(n) = 4^{n-1}$$

Writing rules for sequences

- Look for _____
- _____-and-_____
- For fractions, do top and bottom _____

$$\frac{2}{5}, \frac{2}{25}, \frac{2}{125}, \frac{2}{625}, \dots$$

$$3.1, 3.8, 4.5, 5.2, \dots$$

To graph

- n is like _____; a_n is like _____
- The graph will be _____
- Do _____ connect the dots!

$$600 \# 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 45, 49, 59 = 15$$

