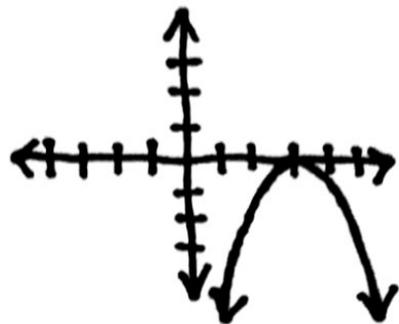


A

x	0	1	2	3
y	4	12	20	28

B



C

This type of function has a constant rate of change.

D

Two forms:

$$y = ax^2 + bx + c$$

$$y = a(x-h)^2 + k$$

E

This type of function has an asymptote.

F

x	y
1	2
2	4
3	8
4	16

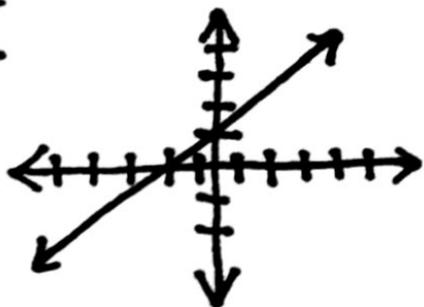
G

$$y = a(b)^x$$

H

x	1	2	3	4
y	500	100	20	4

I



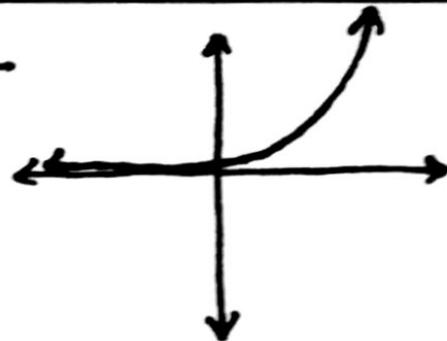
J

This type of function has a vertex and axis of symmetry.

K

x	0	1	2	3
y	26	29	30	29

L



M

Arithmetic Sequences

N

$$y = mx + b$$

O

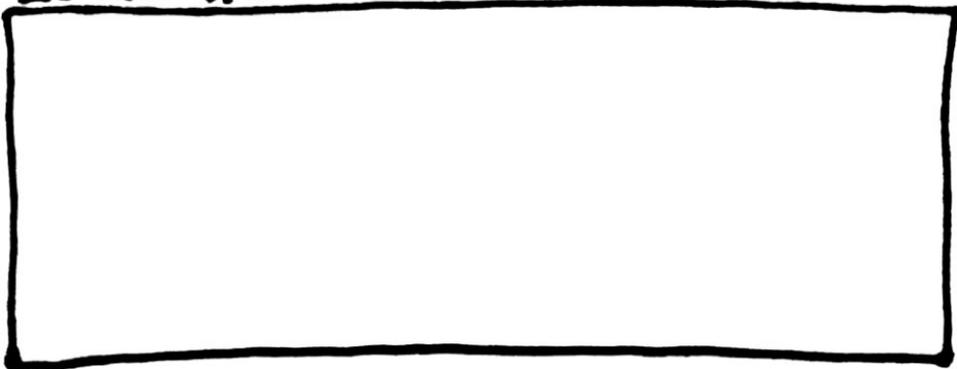
This type of function has a common ratio.

P

Geometric Sequences

Write the letters of the functions or characteristics under the appropriate category.

LINEAR



QUADRATIC



EXPONENTIAL



Write the equation for each of the tables (A, F, H, + K). Then write a story to describe it.

A:

F:

H:

K:

Write the letters of the functions or characteristics under the appropriate category.

LINEAR

A, C, I, M, N

QUADRATIC

B, D, J, K

EXPONENTIAL

E, F, G, H, L, O, P

Write the equation for each of the tables (A, F, and H). Then write a story to describe it.

A: $y = 8x + 4$

F: $y = 1(2)^x$

H: $y = 2500\left(\frac{1}{5}\right)^x$

Challenge!

K: $f(x) = -(x-2)^2 + 30$