

A1

$$f(x) = \begin{cases} -2x - 2, & -5 < x < 0 \\ -2, & x \geq 0 \end{cases}$$

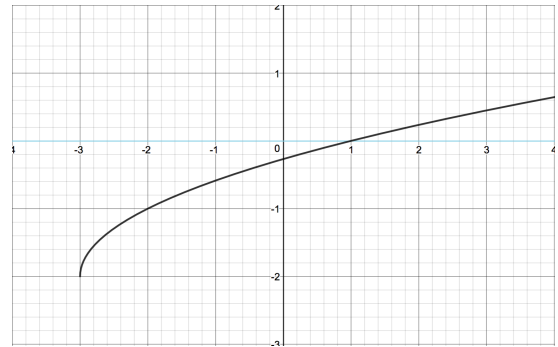
A2

The function increases at a constant rate of $\frac{a}{b}$ and the y-intercept is $(0, c)$

A3

Each input value, x , is squared and then 3 is added to the result. The domain of the function is $[0, \infty)$

A4



A5

x	y
-2	-3
2	3
0	0
6	5
4	4
$-\frac{4}{3}$	-2

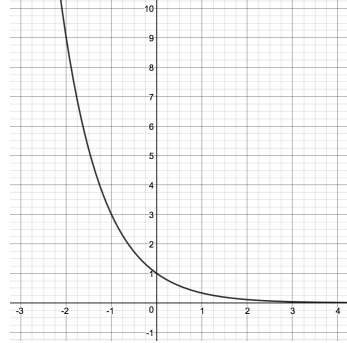
A6

$$y = 3^x$$

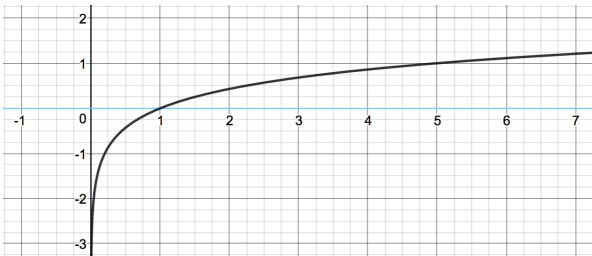
A7

x	y
-5	-125
-3	-27
-1	-1
1	1
3	27
5	125

A8



A9



A10

Yasmin started a savings account with \$5. At the end of each week, she added \$3. This function models the amount of money in the account for a given week.

B1

$$y = \log_3 x$$

B2

$$f(x) = \begin{cases} \frac{2}{3}x, & -3 < x < 3 \\ 2x - 4, & x \geq 3 \end{cases}$$

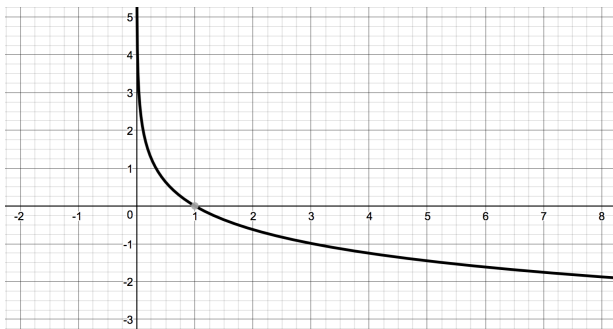
B3

The x-intercept is $(c, 0)$ and the slope of the line is $\frac{b}{a}$.

B4

x	y
-216	-6
-64	-4
-8	-2
0	0
8	2
64	4
216	6

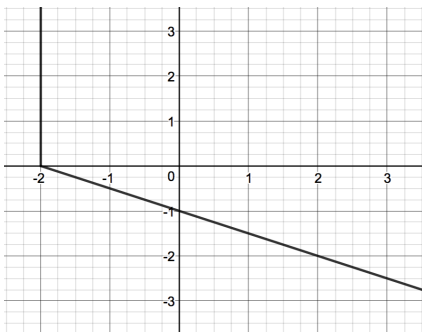
B5



B6

x	y
3	0
4	1
7	2
12	3
19	4
28	5
39	6

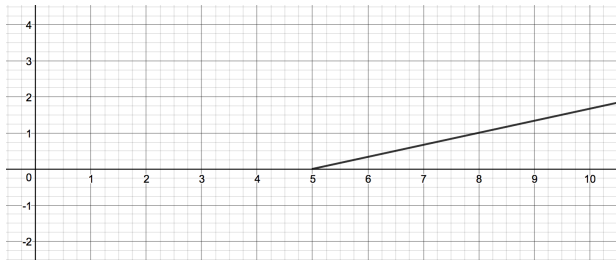
B7



B8

x	y
-2	-3
-1	-2
0	1
1	6
2	13

B9



B10

The function is continuous and grows by an equal factor of 5 over equal intervals.
The y-intercept is (0, 1)