

A FUZZY FAIRY TALE

ANSWER KEY

1. (a.) b = 2

(b.) b is the exponential growth factor. Since each teddy bear will double, the number is always multiplied by 2.

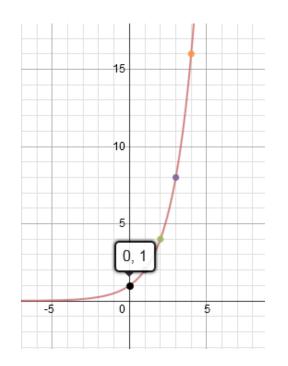
(c.) $y = 1(2)^{x}$ where x is the number of days

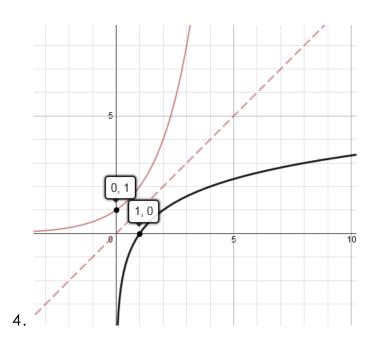
(d.) a is the initial number of bears and also the y-intercept for the function. It is the value, or number of bears, when x = 0 or before they start doubling.

2.

x (days)	0	1	2	3	4	5
y (teddy bears)	1	2	4	8	16	32

3.

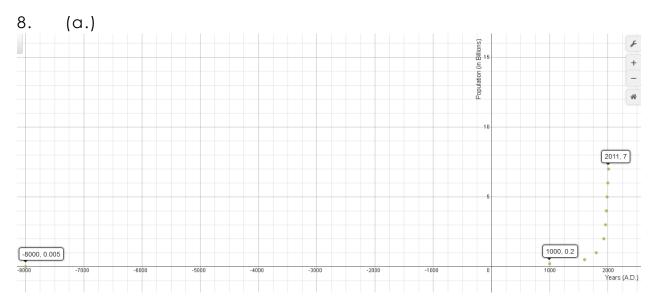


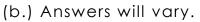


- 5. $y = \log_2 x$
- 6. (a.) 2 more days

(b.) 5 days

7. 2 more days, or 30 days.





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