

1. Tell yourself: "I can do this"

2. Read the problem [All of the words]

3. Determine what? the problem wants

you to answer

4. Find (USt) given information

5. Use given information to solve problem

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7: 200% LIDerease 711hrase

What is the initial value and percent of increase or decrease?

$$f(x) = 52 \cdot 1.15^{x}$$
 V:52 Increase 15%

$$f(x) = 5.85^{x}$$
 V:5 deverte |5%

$$f(x) = a_0 \cdot b^x$$

$$f(x) = a_0 \cdot b^x$$
$$f(x) = a_0 \cdot (1 \pm r)^x$$

When looking at percent increase or decrease - the base is expressed as 100% + or - the % change.

$$f(x) = 2 \cdot .73^{x}$$

Is this an increase or decrease?

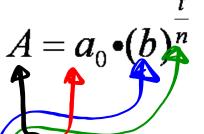
By what %?

The initial value is 4 and the population is increasing by 3%. Write an exponential equation.

$$f(x) = 4 \cdot (1.03)$$

When will the population reach 10?

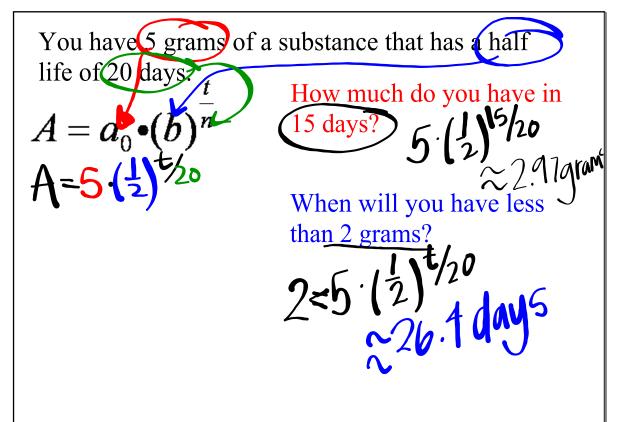
Graph
y=10 y=4.(1.03)
Find intersection
20.998)



If you have the life cycle of a given behavior then use this formula.

the amount after a given period of time

- a_0 the initial amount
- t_ time
- n the life cycle of the behavior
- b) type of behavior (doubling, half life, etc.)



Atmospheric Pressure:

$$P(h) = 14.7 \cdot \left(\frac{1}{2}\right)^{\frac{h}{3.6}}$$

P pounds per square inch

h height in miles

14.7 initial pressure (sea level)

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$H\mathbf{x}_1$	ponential	Regr	ession
	ponential	rogi	COSTOIL

A process of fitting a set of data to an exponential equation.

0	1900	76.2
O	1910	92.2
20	1920	106
39	1930	123.2
40	1940	132.2
50	1950	151.3
60	1960	179.3
70	1970	203.3
80	1980	226.5
T	1990	248.7
9	2000	281.4
	2003	290.8

Step 1: STAT > EDIT 4962

Step 2:214 Stat Plot : TURN Plot 1

Step 3: STAT-7 CA | C 70 EXPRE9

2M 1(L₁), 2M2(L₂),

Equation: VARS-7 (VARS-7), BUTE

Company the continuous lines are the continuous lines ar

Compare the result with 2003.

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