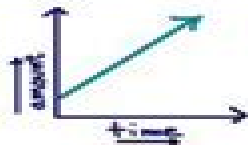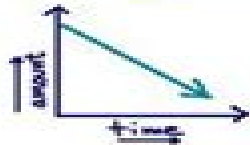# SAT MATH STUDY NOTES
Passport to Advanced Math

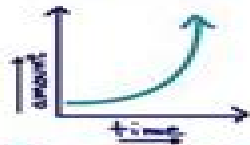## EXPONENTIAL INCREASE AND DECREASE

Graphs – Linear vs. Exponential

Linear Increase

Linear Decrease

Exponential Increase

Exponential Decrease

Basic Exponential Formula

$$y = a(b)^t \quad \text{where:}$$

y = Final amount
a = Initial amount
b = Rate (decimal form)
t = Time

Calculating the "b" term:

For an 8% increase, change to decimal form → 0.08 and add to 1.
$$b = 1 + 0.08 = 1.08 \checkmark$$

For an 8% decrease, change to decimal form → 0.08 and subtract from 1.
$$b = 1 - 0.08 = 0.92 \checkmark$$

Write Equation from Word Problem

Your house is worth $365,000 today. Write exponential equations to solve the following:

6% annual increase over 5 years	4% annual decrease over 3 years
$y = 365,000(1 + 0.06)^5$	$y = 365,000(1 - 0.04)^3$
$y = 365,000(1.06)^5$	$y = 365,000(0.96)^3$
$y = \$488,452 \checkmark$	$y = \$322,929 \checkmark$

INTERSECTING FUNCTIONS

The graph of $y = (x-6)^2 + 4$ intersects the graph of $y = 3x - 10$ at two points. Find the (x, y) coordinates of these two points.

① Set the equations equal to each other: $(x-6)^2 + 4 = 3x - 10$

② Solve for x:
$$x^2 - 6x - 6x + 36 + 4 = 3x - 10$$
$$x^2 - 15x + 50 = 0$$
$$(x-5)(x-10) = 0$$
$$x - 5 = 0 \quad \text{and} \quad x - 10 = 0$$
$$x = 5 \quad \text{and} \quad x = 10$$

③ Plug $x = 5$ and $x = 10$ into one of the equations to find the y values.
$$x = 5 \rightarrow y = 3(5) - 10 \rightarrow y = 5$$
$$x = 10 \rightarrow y = 3(10) - 10 \rightarrow y = 20$$

These 2 functions intersect at:
$$(5, 5) \quad \text{and} \quad (10, 20) \checkmark$$

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