

IB Math SL Exam Study Sheet

Written by Melissa Yuce and Morgan Bowling. Edited by Mr. Gowdy

Not all formulas and calculator moves written on this sheet are given to you on the formula sheet.
KNOW YOUR FORMULA SHEET WELL!

TOPIC 1 & 2 = Algebra, Functions

Sequences

- All formulas for this chapter are given on the formula sheet

- Arithmetic- addition
- Geometric- multiplication
- D is the slope

For example, if they ask for d and all they give you is $U_{21} = -37$ and $U_4 = -3$, solve using the slope

$$\text{formula: } \frac{-37 - (-3)}{21 - 4} = -2 = d$$

Quadratic Equations

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

$$y = a(x - h)^2 + k, \text{ vertex @ } (h, k)$$

$$\text{Axis of Symmetry: } x = \frac{b}{2a}$$

$$x = h$$

To find y-intercept: plug in 0 for x

To find x-intercept: plug in 0 for y

Exponential Growth and Decay

$$A = P(1 + r)^t$$

Basic Growth, Decay or Yearly compound interest:

A = Current or final amount

P = Principal or starting amount

r = interest rate

t = time (generally in years – units must match interest rate)

$$A = P \left(1 + \frac{r}{n}\right)^{nt} \quad \text{Compound interest multiple times per year (} n = \# \text{ of times)}$$

$$A = Pe^{rt} = Ce^{rt} \quad \text{Continuous compounding, or continuous growth, decay}$$

Inverse Functions

$f^{-1}(x)$ = the inverse of $f(x)$

$$y = e^x \quad \xleftrightarrow{\text{inverse functions}} \quad y = \ln(x)$$

$$y = x^2 \quad \xleftrightarrow{\text{inverse functions}} \quad y = \sqrt{x}$$

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