

IB DP IB Mathematics Analysis and approaches SL 2022 (IB1)

Summary			
SL Chapter 4 - Rational Functions			
Subject Mathematics: analysis and approaches	Year IB1	Start date Week 1, November	Duration 3 weeks
Course Part Description			
In this unit you will explore reciprocal and rational functions and their asymptotes.			
🛸 Inquiry & Purpose			
⑦ Inquiry / Higher Order Questions			
Туре	Inquiry Questions		
Concept-based	Why do rational functions have asymptotes?		
Content-based	Why does an irrational function converge?		

Curriculum

Aims

Employ and refine their powers of abstraction and generalization

♦ Objectives

Problem solving: Recall, select and use their knowledge of mathematical skills, results and models in both abstract and real-world contexts to solve problems.

Syllabus Content

Topic 2: Functions

SL Content

SL 2.8

The reciprocal function $f(x)=rac{1}{x}$, x
eq 0: its graph and self-inverse nature.

Rational functions of the form $f(x) = rac{ax+b}{cx+d}$ and their graphs.

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Equations of vertical and horizontal asymptotes.

