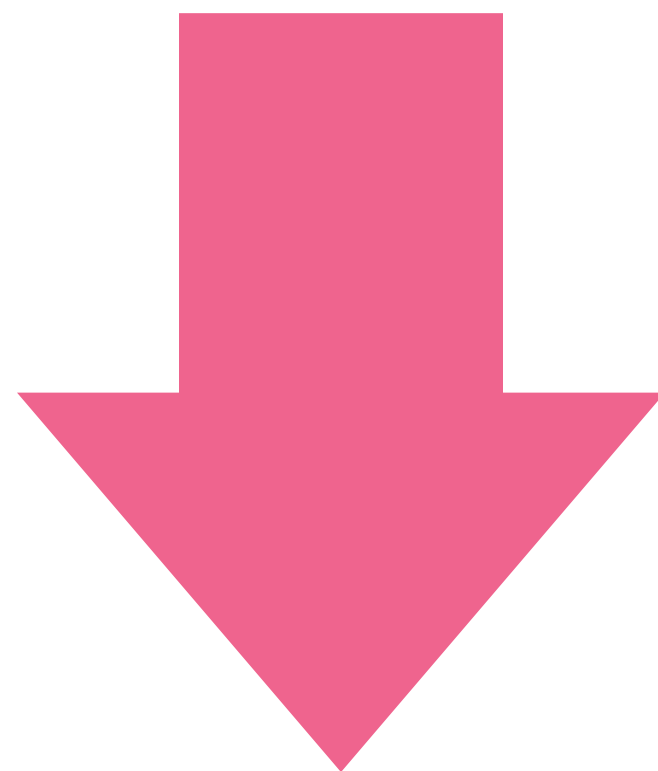


This is the BIG Bundle for AP Calculus BC Differential Equations.

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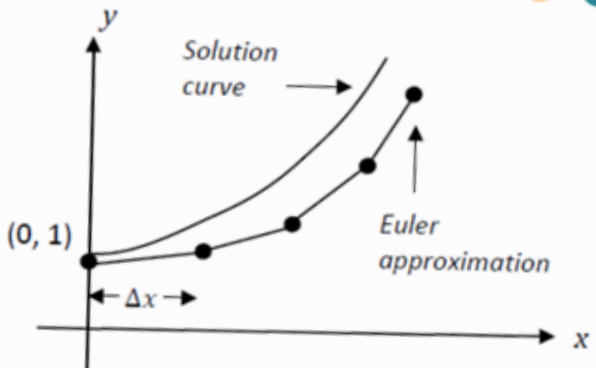


AP[®] Calculus-BC
Differential Equations

Flamingo MATH by Jean Adams

Which at right illustrates the particular solution compares to the Euler approximation.

Why do the approximate y-values underestimate the actual values?
Each tangent line will lie below the curve. The solution curve $y = e^x$ is concave up and we use these tangent lines to find the approximations.



B. Complete the table at right, comparing the difference between Exact Value — Approximate Value. Are the approximations getting better or worse? Why?

x	Exact Value - Euler Approximation
0	0
0.1	0.00517
0.2	0.0114
0.3	0.0188
0.4	0.0277

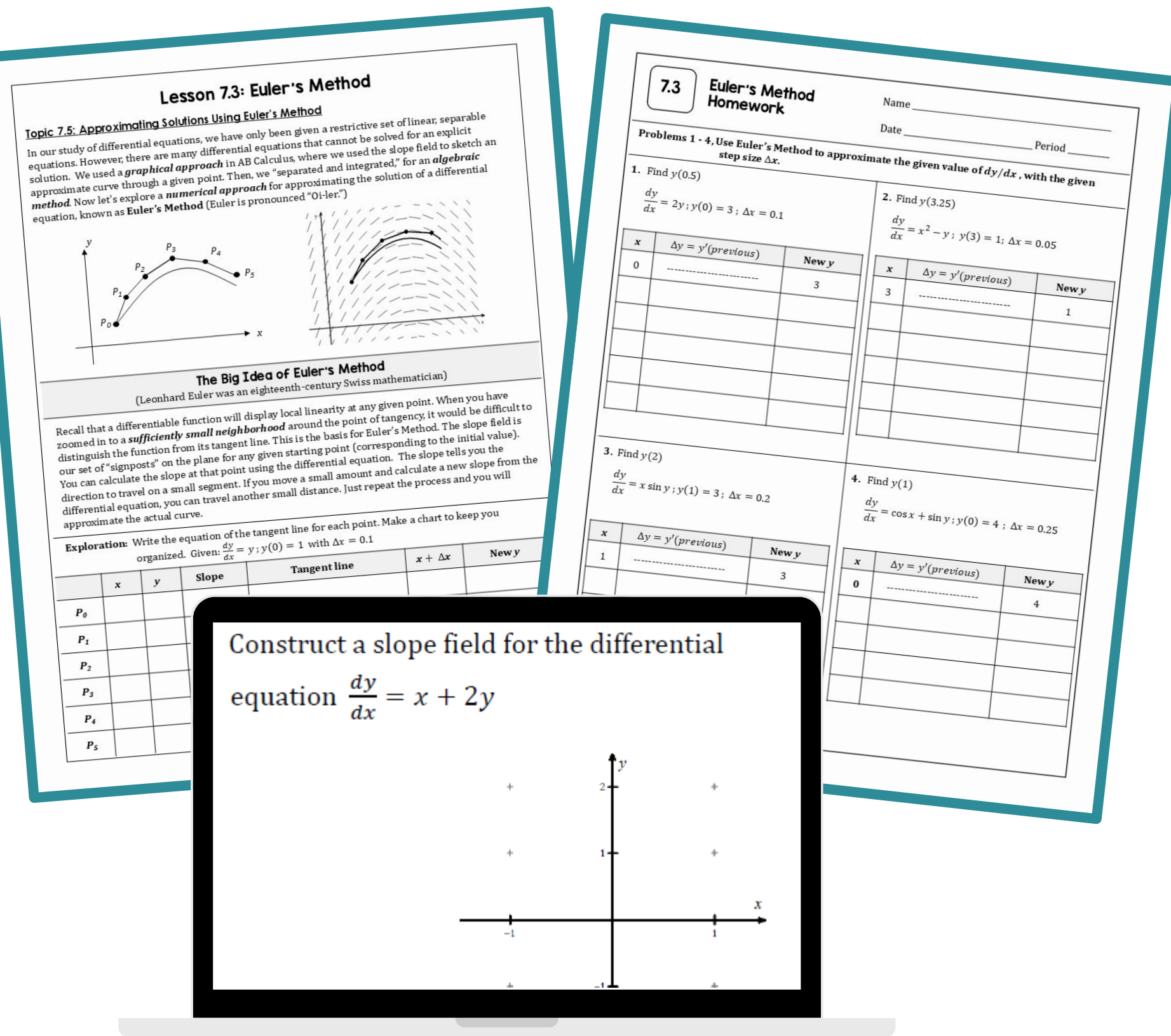
They are getting worse because $y = e^x$ starts

BIG Bundle

Completely Editable

7

WHAT IS INCLUDED?



Editable Guided Student Notes, Practice sets, and Daily Quizzes



Google Slides



Video lessons



Assessments & Review

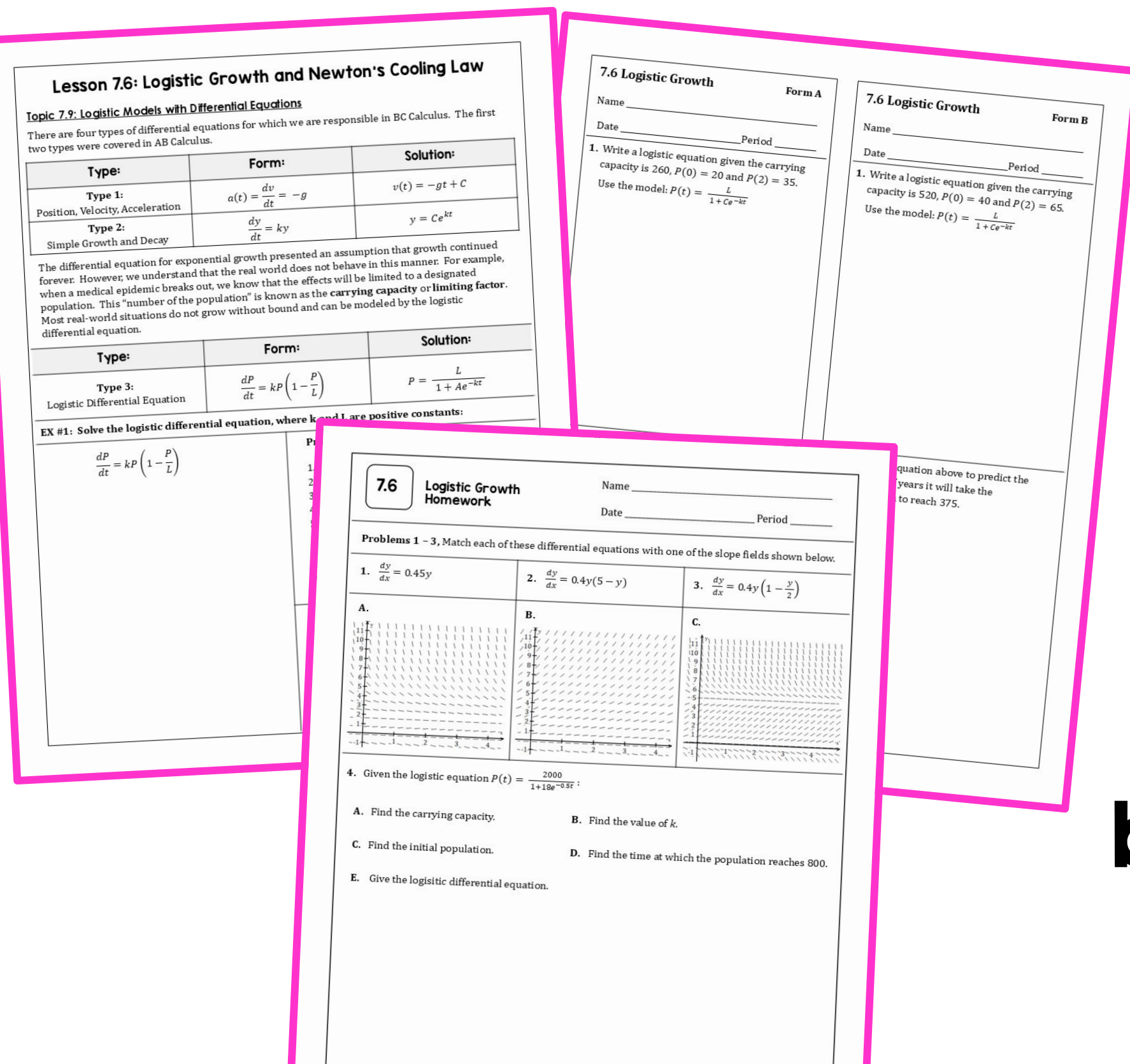


Full solution sets



Scope, Sequence, Pacing

Rigorous lessons and practice sets aligned to course standards is here.



★ Where do you find extra time to write AP-Style notes and practice sets?

★ Is your class instruction aligned to the CED learning objectives and topics?

★ You need resources that will challenge your students to the AP[®] rigor for success.

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Cover the Standards

Each lesson will provide you and your students with the skills and learning objectives necessary for success in the AP Environment.

- ☐ You will find an editable scope and sequence document to track the learning objectives for the unit.
- ☐ Each lesson includes Google Slides for your presentation needs.
- ☐ You will also have a **fully-editable version** for every lesson, practice set, daily quiz and assessment.
- ☐ A pacing guide for Calc BC lessons and testing schedule.

AP CALCULUS BC CURRICULUM	
Scope and Sequence	
Unit 7: Differential Equations	
Lesson	Skills & Learning Objectives
[7.1] Introduction to Differential Equations	☐ Interpret verbal statements to write differential equations and verify solutions.
[7.2] Slope Fields	☐ Use slope fields to approximate solutions of differential equations. ☐ Identify slope fields for differential equations. ☐ Use initial conditions to find particular solutions of differential equations.
[7.3] Euler's Method	☐ Use a differential equation and its slope field to calculate points on the graph iteratively using Euler's Method.
[7.4] Separation of Variables	☐ Use separation of variables to solve simple differential equations.
[7.5] Growth and Decay	☐ Use exponential functions to model growth and decay in applied problems.
[7.6] Logistic Growth	☐ Use logistic differential equations to model and solve applied problems including Newton's Cooling Law.
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Full Year Curriculum

The MEGA Bundle provides ten units for the entire AP Calculus BC course, including activities, video lessons, presentation tools, and so much more.

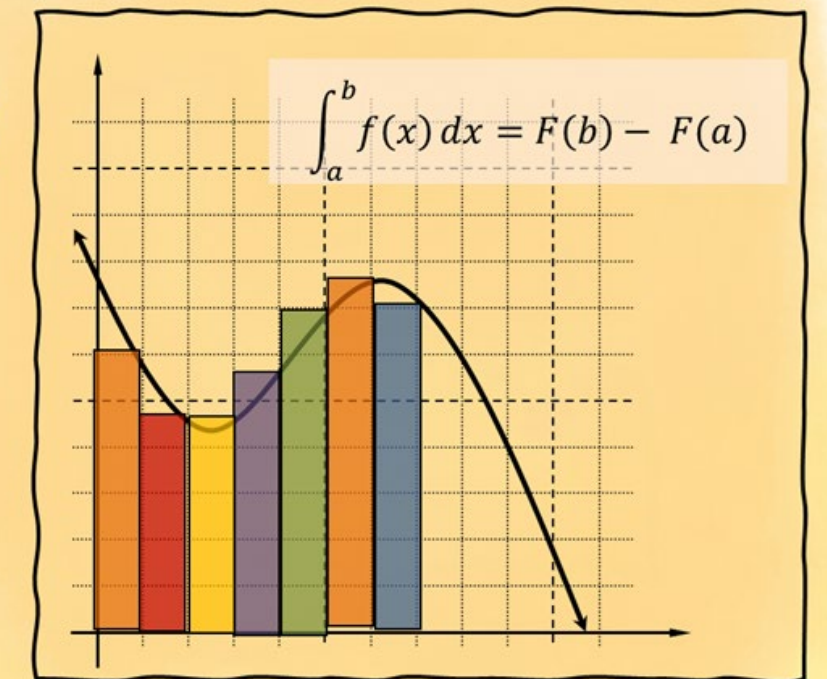
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- ☐ Activities
- ☐ and More



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