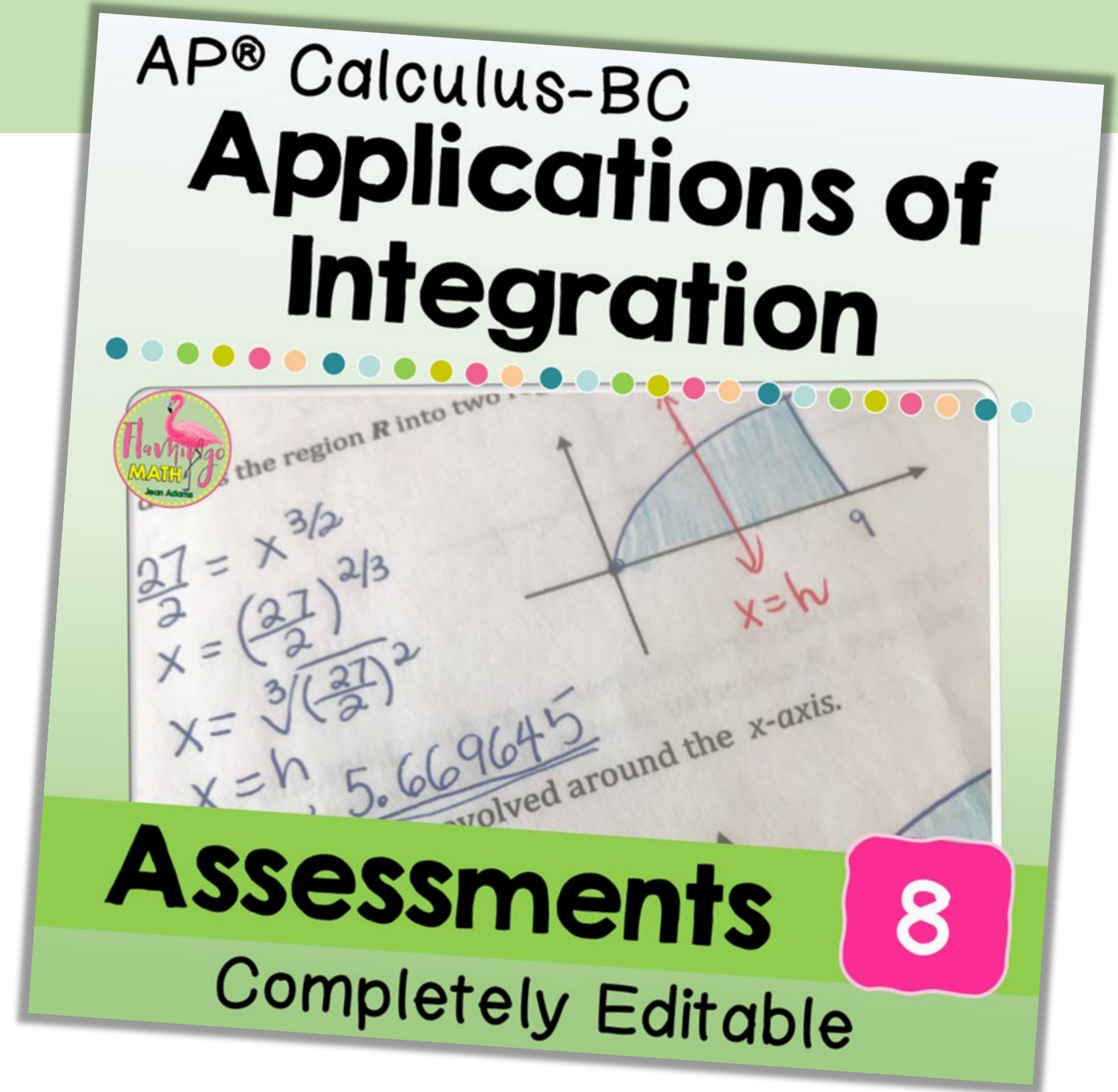
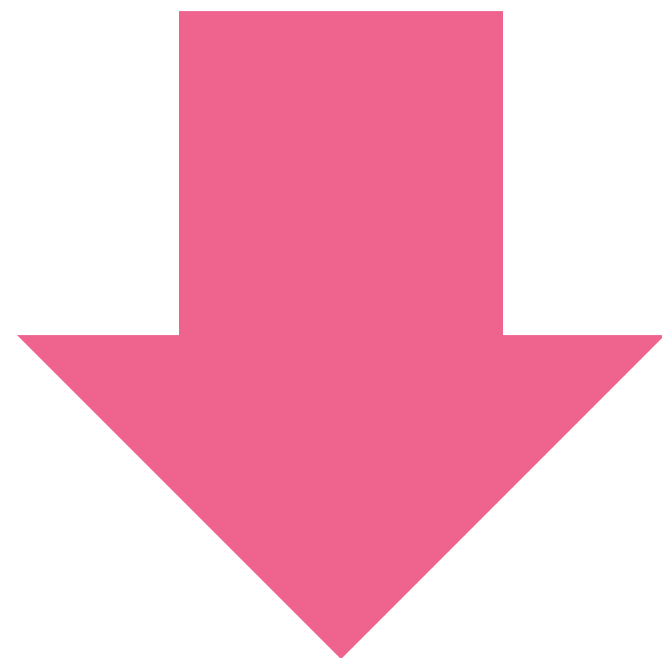


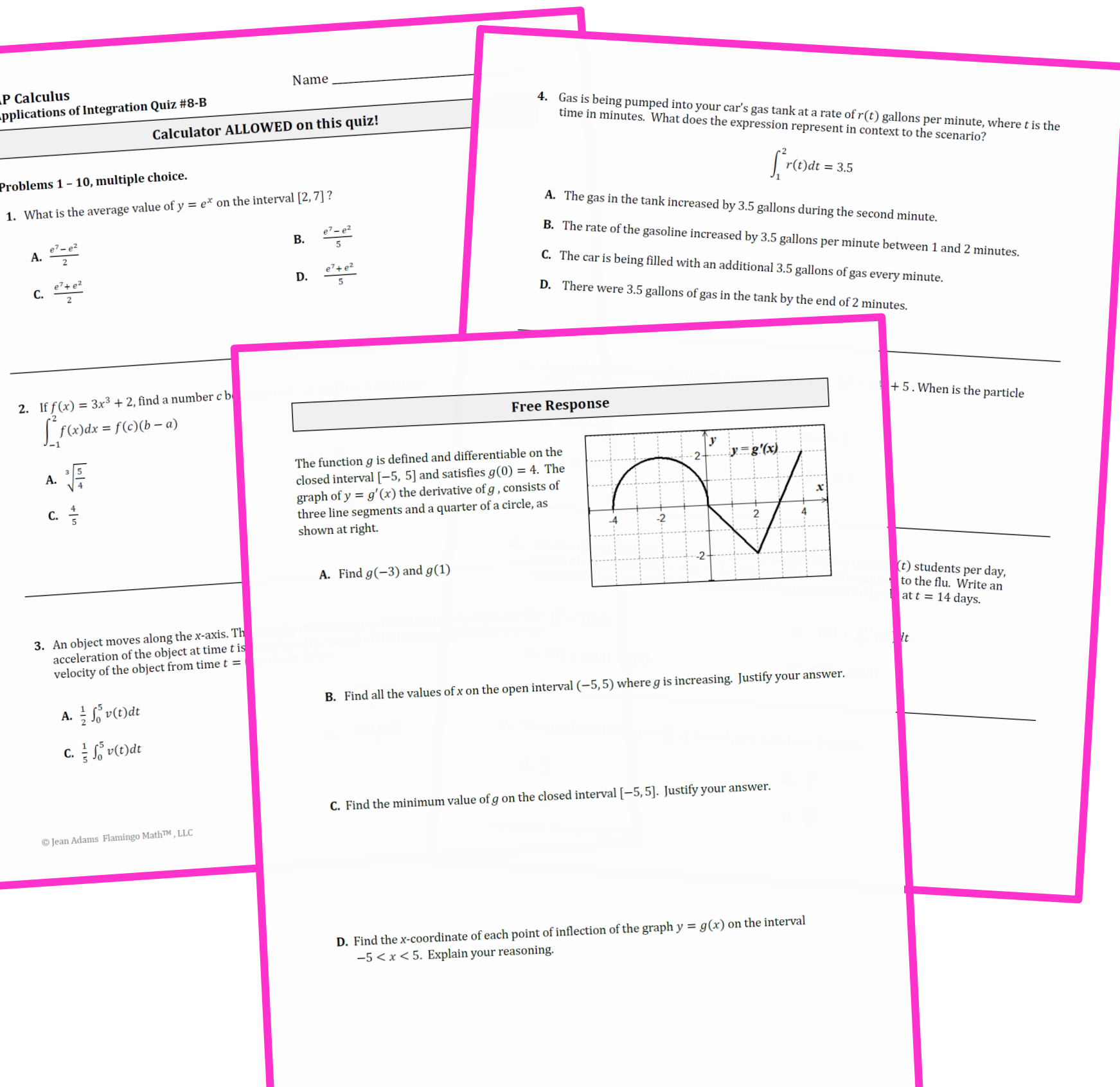
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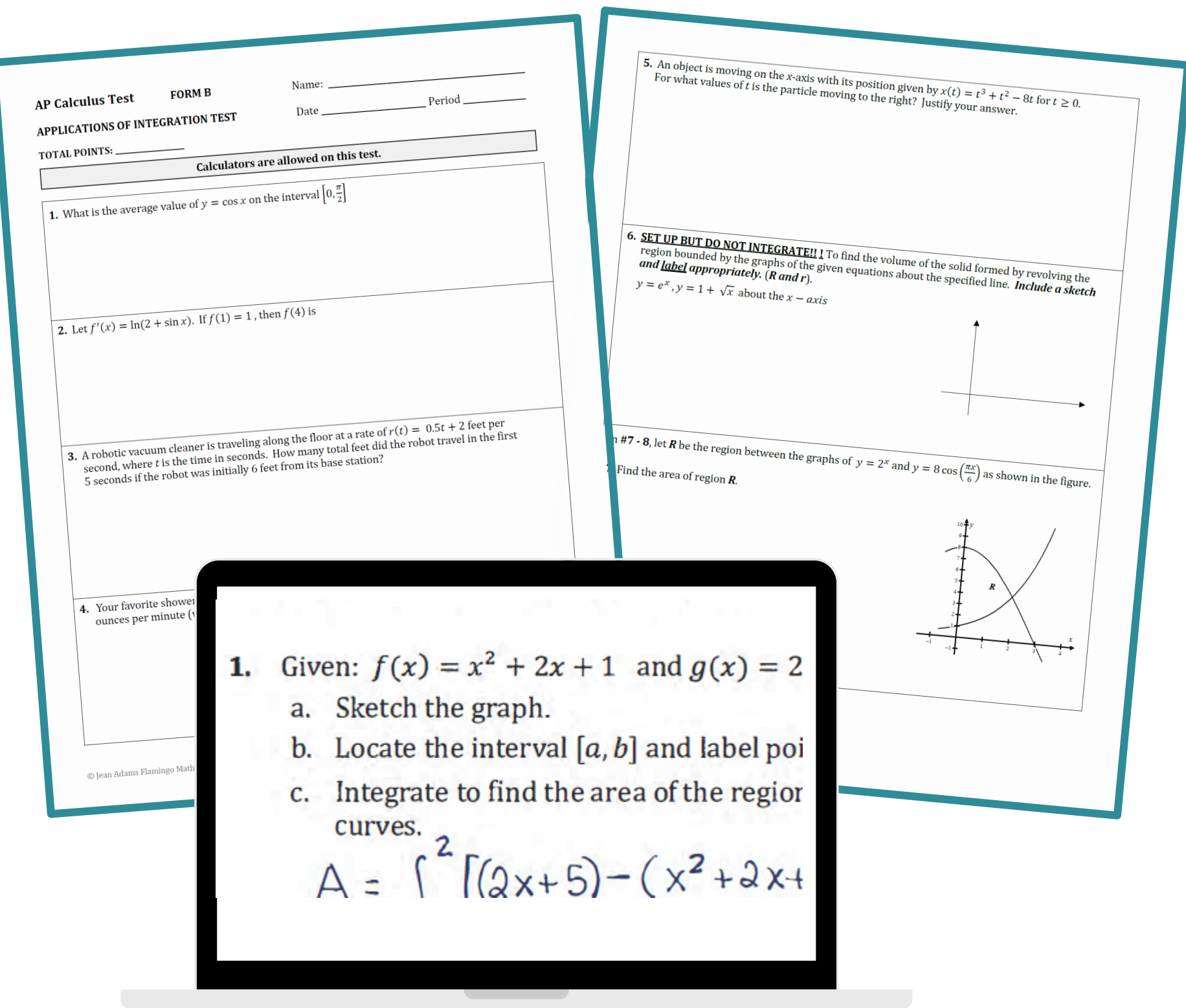
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AP CALCULUS BC CURRICULUM	
Scope and Sequence	
Unit 8: Applications of Integration	
Lesson	Skills & Learning Objectives
[8.1] Finding Average Value for Integrals	❑ Apply definite integrals to problems involving the average value of a function over an interval
[8.2] Another Look at Particle Motion	❑ Use properties of integration and accumulation to analyze position, velocity, acceleration functions
[8.3] Accumulation Functions in Applied Contexts	❑ Describe integration as an accumulation process
[8.4] Area Between Two Curves	❑ Find the area of a region between two curves using integration
[8.5] Volumes by Cross Sections	❑ Find the volume of a solid of revolution with known cross sections
[8.6] Volume of Revolution: Disc and Washer Methods	❑ Find the volume of a solid of revolution using the disc and washer methods
[8.7] Volumes-Revolving Around Other Axes	❑ Find the volume of a solid by revolving about a line other than an axis
[8.8] Arc Length of a Plane Curve	❑ Find the arc length of a smooth, planar curve and distance traveled.

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Early Reviews from Happy Teachers!

AP CALCULUS BC UNIT 7 REVIEW

Name _____

Important Topics:

- Slope Fields
- Solve Differential Equations through separation of variables
- Applications of Differential Equations
 - Exponential Models
 - Euler's Method
 - Logistics Models

SHORT ANSWER PROBLEMS:

1. Show that "the rate of change of y is proportional to y " supports the model $y =$

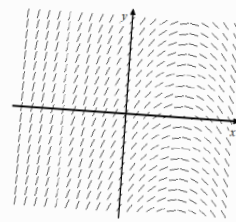
2. If $\frac{dy}{dx} = \frac{k}{x}$, k is a constant, and if $y = 3$ when $x = 1$, and $y = 8$ when $x = e$, find

3. The rate of change of y is proportional to y . When $x = 0$, $y = 24$, and when $x = 10$, $y = 10$. What is the value of y when $x = 10$?

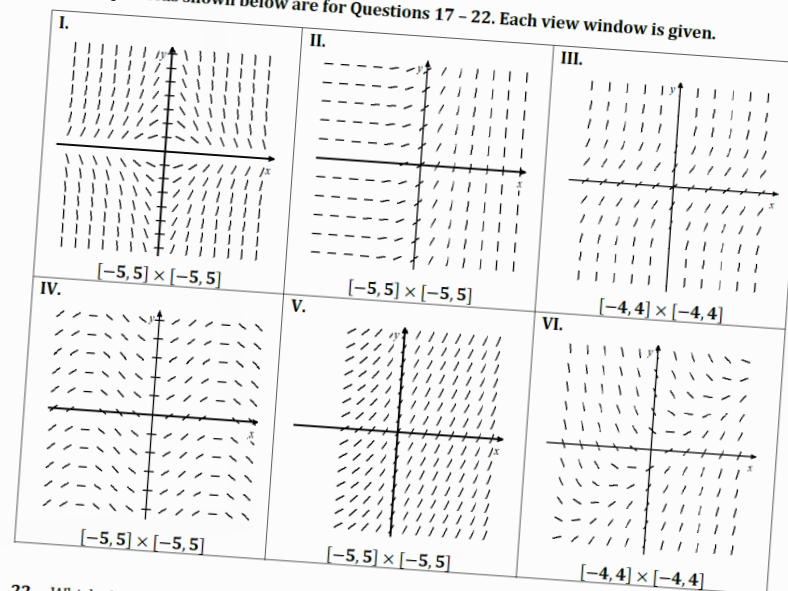
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21. The slope field shown at right satisfies the differential equation

- A. $y' = 2x$ B. $y' = x + 2$
C. $y' = 2 - x$ D. $y' = -x^2$



The slope fields shown below are for Questions 17 – 22. Each view window is given.



22. Which slope field satisfies the differential equation $\frac{dy}{dx} = e^x$

- A. I. B. II.
C. III. D. IV.

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“ I love these assessments! They are rigorous and have multiple versions to use. *Michelle P.* ”

“ Very comprehensive! I like having the option of AP and non-AP assessments. *Abby M.* ”

“ I love the way that you set up the test (AP Style) It is hard to find good assessments for the students. Your tests are a big help! *Monica B.* ”

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