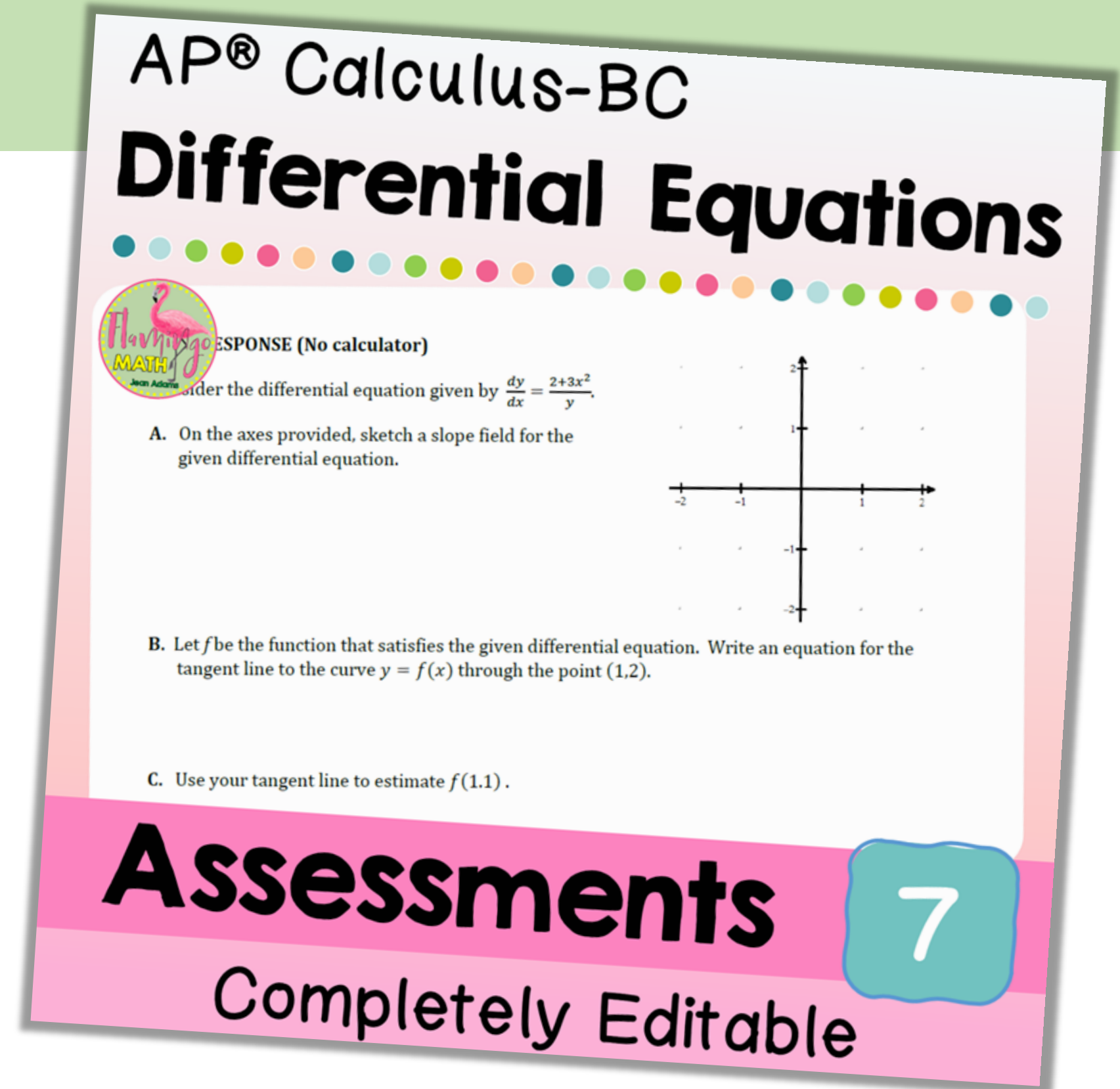
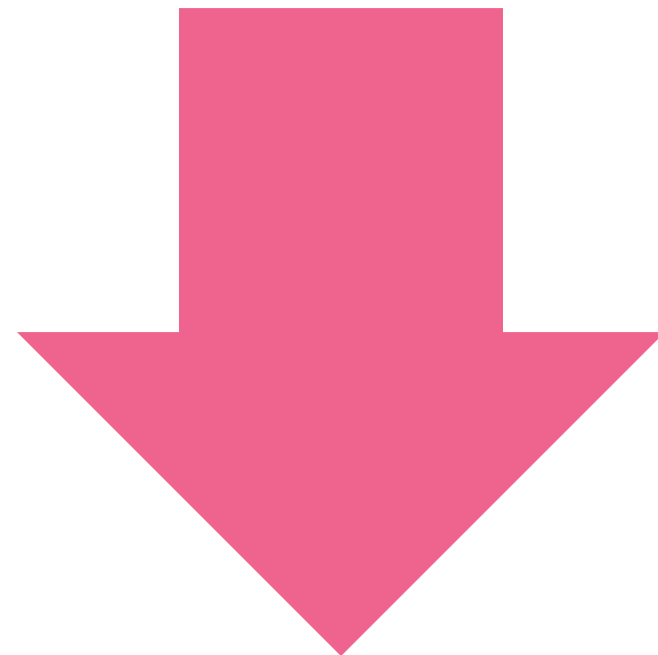


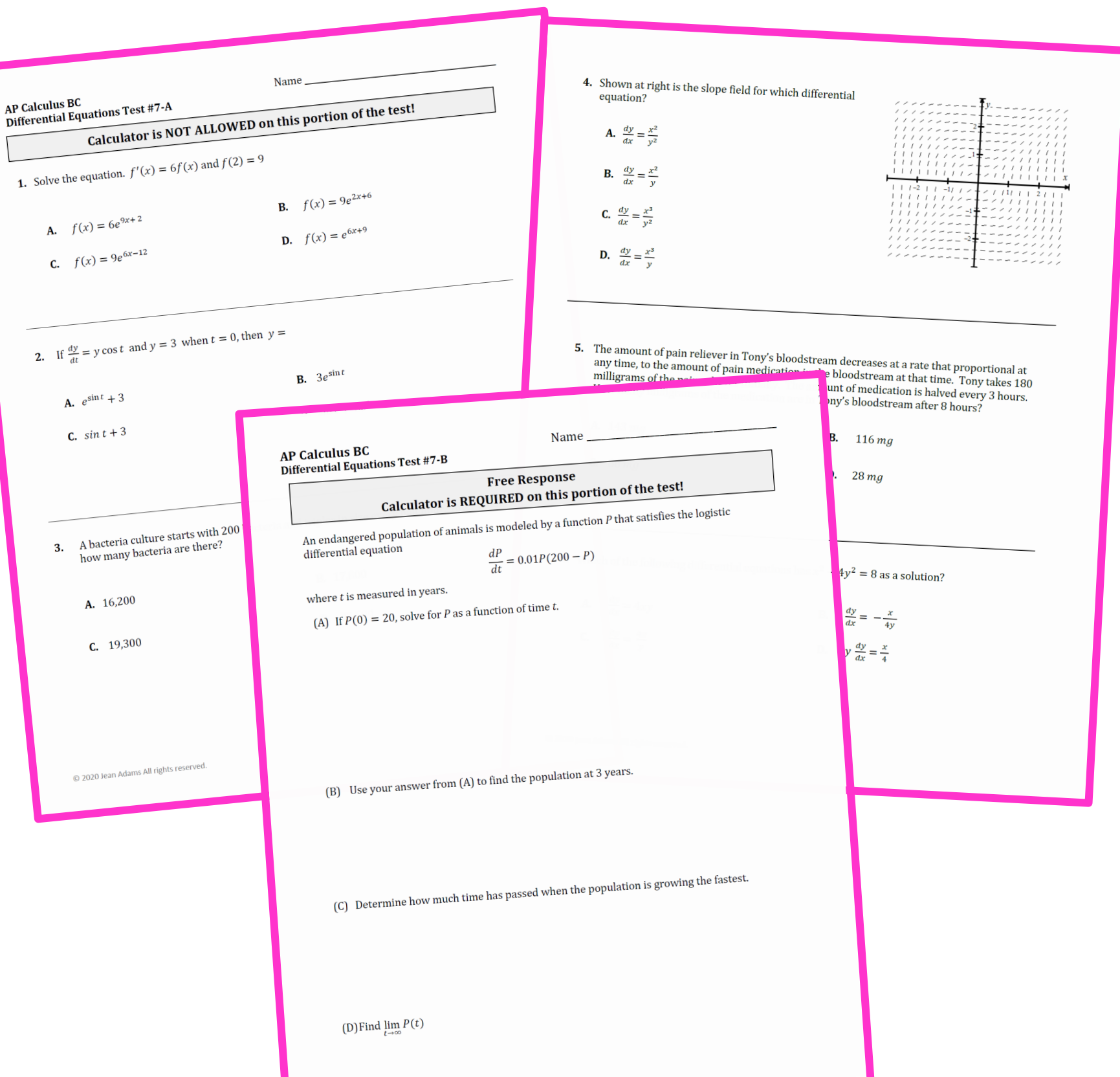
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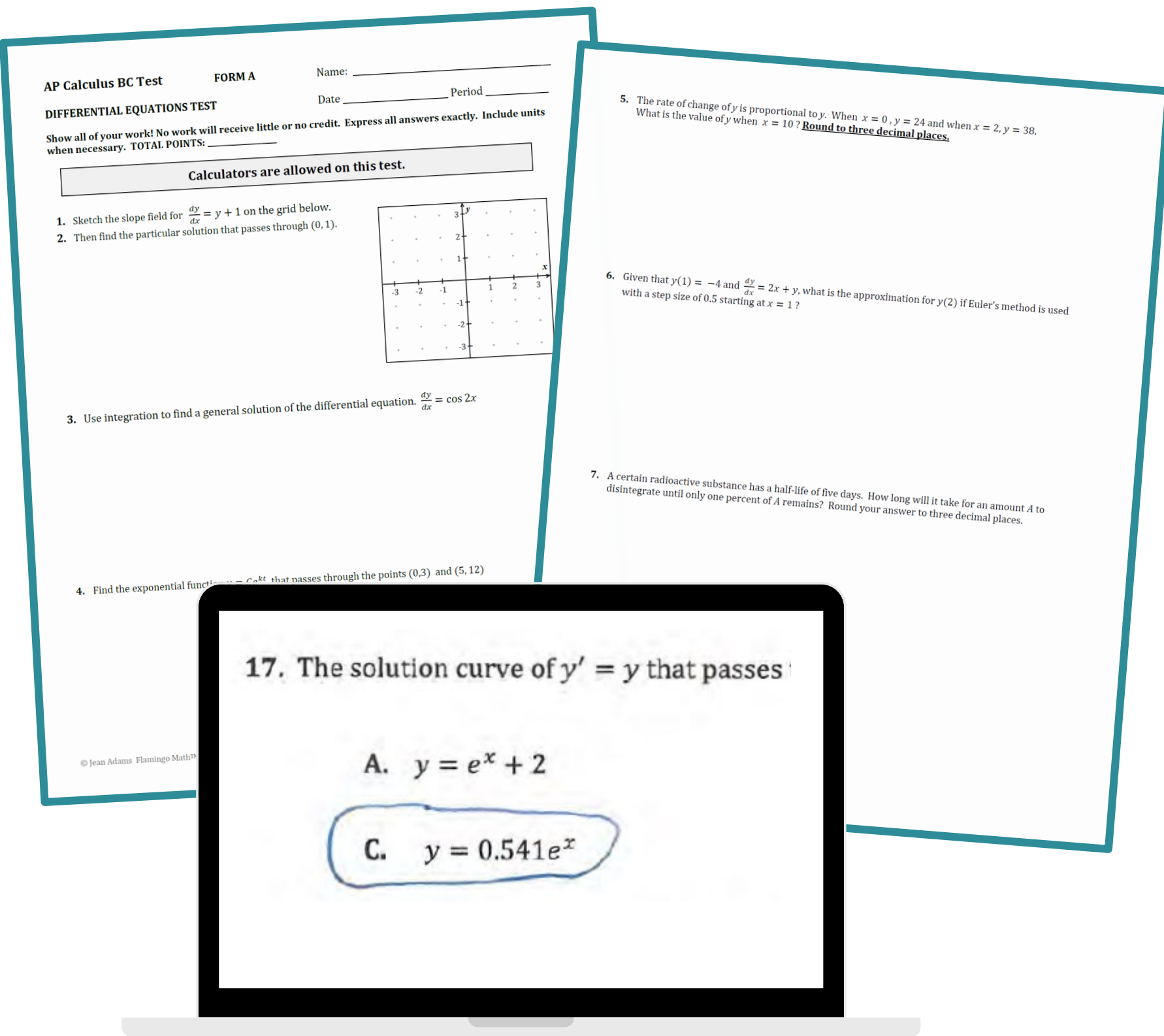
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AP CALCULUS BC CURRICULUM	
Scope and Sequence	
Unit 7: Differential Equations	
Lesson	Skills & Learning Objectives
[7.1] Introduction to Differential Equations	☐ Interpret verbal statements to write differential equations and verify solutions.
[7.2] 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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Early Reviews from Happy Teachers!

AP CALCULUS BC UNIT 7 REVIEW

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 $y =$

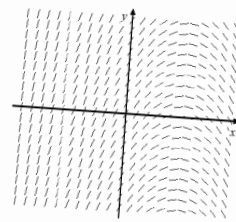
2. If $\frac{dy}{dx} = \frac{k}{x}$, k is a constant, and if $y = 3$ when $x = 1$, and $y = 8$ when $x = e$, find

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 $x = 10$?

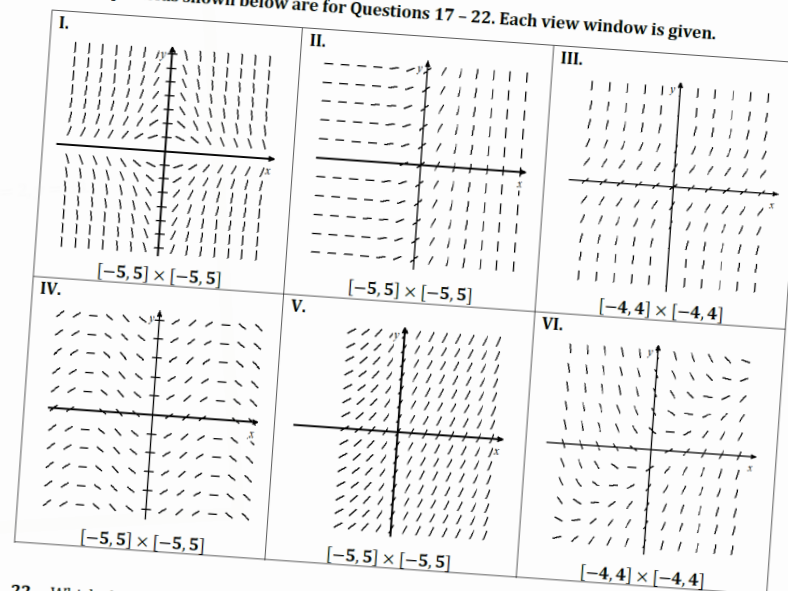
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21. The slope field shown at right satisfies the differential equation

- 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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