

 $y = 5 \ln(3x^2 + 8) - 3x$ 

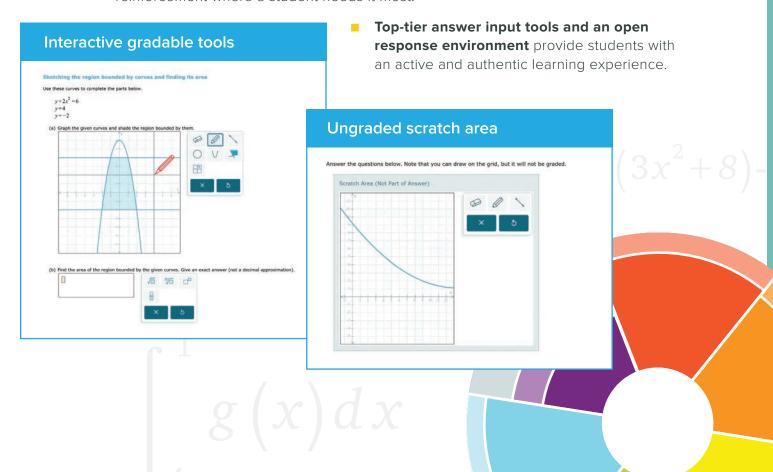
# Award-winning *ALEKS* Now Offers a Complete Calculus Course

For more than 20 years, the leading adaptive learning platform *ALEKS* has dramatically improved student success with its best-in-class content, individualized instruction, and trusted, mastery-based approach.

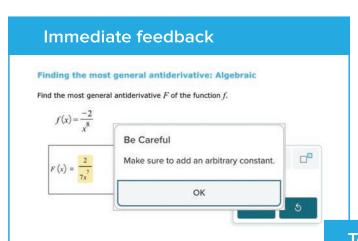
Now you and your students can experience these benefits through a rigorous *ALEKS* Calculus course — complete with a personalized learning path, instant feedback, continuous assessment, and nearly unlimited practice.

#### Why Choose ALEKS for Calculus?

- **Built-in prerequisite Algebra and Precalculus content** makes it easier for students to fill in knowledge gaps and be more prepared for Calculus.
- A personalized learning path increases retention by providing individual support and reinforcement where a student needs it most.

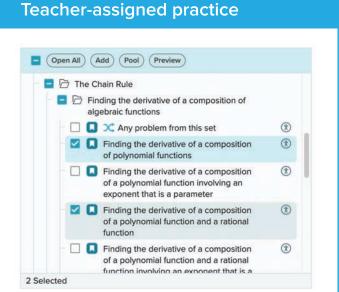


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Just-in-time error correction gives students immediate feedback so they can address issues right away through practice and achieve a true comprehension of core skills and definitions.

Ultimate flexibility for teachers offers the freedom to assign targeted practice outside the personalized path, choosing the question types they prefer conceptual, procedural or application-based with granular variations that pinpoint distinct approaches.



Worked example with notes

To apprecimate the area of a repon under a curve, we might use shapes we can easily find the area of, such as rectangles. Here is an example.

Example:

Section of the control of the control of the control of the curve, shows the reads, and the control of the curve for x in [0, 9], in other words, we would like the estimate the area of the region that lies under the curve, above the reads, and between the values x = 0 and x = 9. This region is shaded in the tab manufact figure 2.

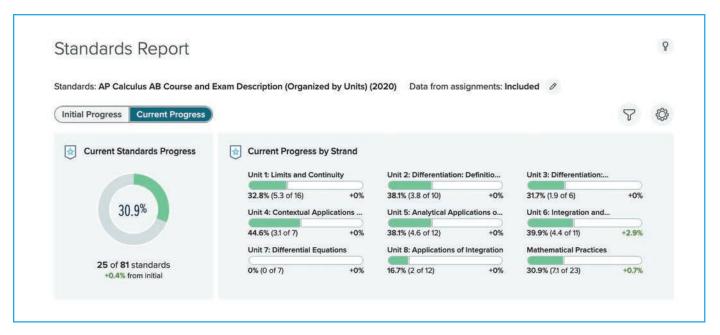
We will estimate the area of the region reside preferred to the curve, above the reads, and between the values x = 0 and x = 9. This region is shaded in the tab manufact figure 2.

We will estimate the area of the index of the control of the curve, above the reads, and between the values x = 0 and x = 9. This region is shaded in the tab manufacture. The cause of the device of the curve for x in [0, 9] and the control of the curve for x in [0, 9]. In the curve for x in [0, 9] and the control of the curve for x in [0, 9]. In the curve for x in [0, 9] and the curve for x in [0, 9]. In the curve for x in [0, 9] and the curve for x in [0, 9]. In the curve for x in [0, 9] and the curve for x in [0, 9]. In the curve for x in [0, 9] and the curve for x in [0, 9]. In the curve for x in [0, 9] are the curve for x in [0, 9]. In the curve for x in [0, 9] are the curve for x in [0, 9]. In the curve of the curve for x in [0, 9] are the curve for x in [0, 9]. In the curve for x in [0, 9] are the curve for x in [0, 9]. In the curve for x in [0, 9] are the curve for x in [0, 9]. In the curve for x in [0, 9] are the curve for x in [0, 9]. In the curve for x in [0, 9] are the curve for x in [0, 9]. In the curve for x in [0, 9] are the curve for x in [0, 9]. In the curve for x in [0, 9] are the curve for x in [0, 9]. In the curve for x in [0, 9], and x in [0, 9]. In the curve for x in [0, 9], and x in [0, 9]. In the curve for x in [0, 9], and x in [0, 9]. In the curve for x in [0, 9], and x in [0, 9]. In the curve for x in [0,

A step-by-step worked example for every topic helps students visualize concepts and learn from accessible explanations.



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Teachers can easily monitor progress aligned to AP Calculus Course and Exam Units



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### **Types of Topics Covered:**

- Conceptual understanding of limits, derivatives and integrals
- The Big Theorems and their multiple aspects and implications; learning to ask the right questions
- Calculations and derivations based on definitions
- Traditional skills
- Multi-concept synthesis
- Word problems and real-world applications

### Teaching with a textbook? Optionally integrate your textbook with *ALEKS* Calculus and get:

- A textbook TOC view when selecting course or assignment content
- The ability to align learning paths with textbook chapters
- Chapter references placed within ALEKS topics (for students)

References to any part of any textbook are for identification purposes only. No implication is intended that ALEKS Corporation is endorsing any textbook, or that any textbook author or publisher is endorsing ALEKS. ALEKS Corporation is solely responsible for the development, selection, and sequencing of all ALEKS content. List of textbooks available for integration is subject to change.



