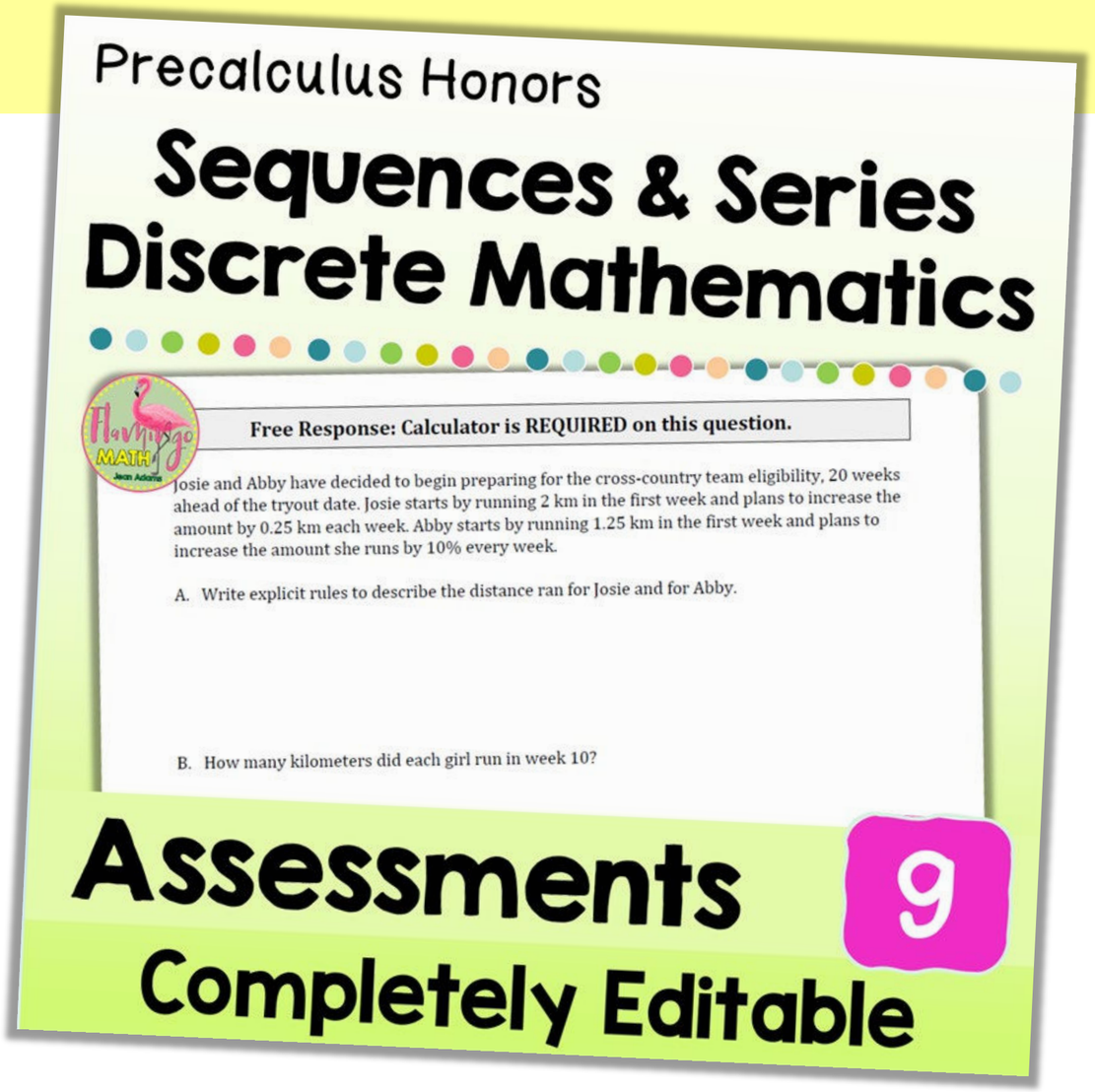
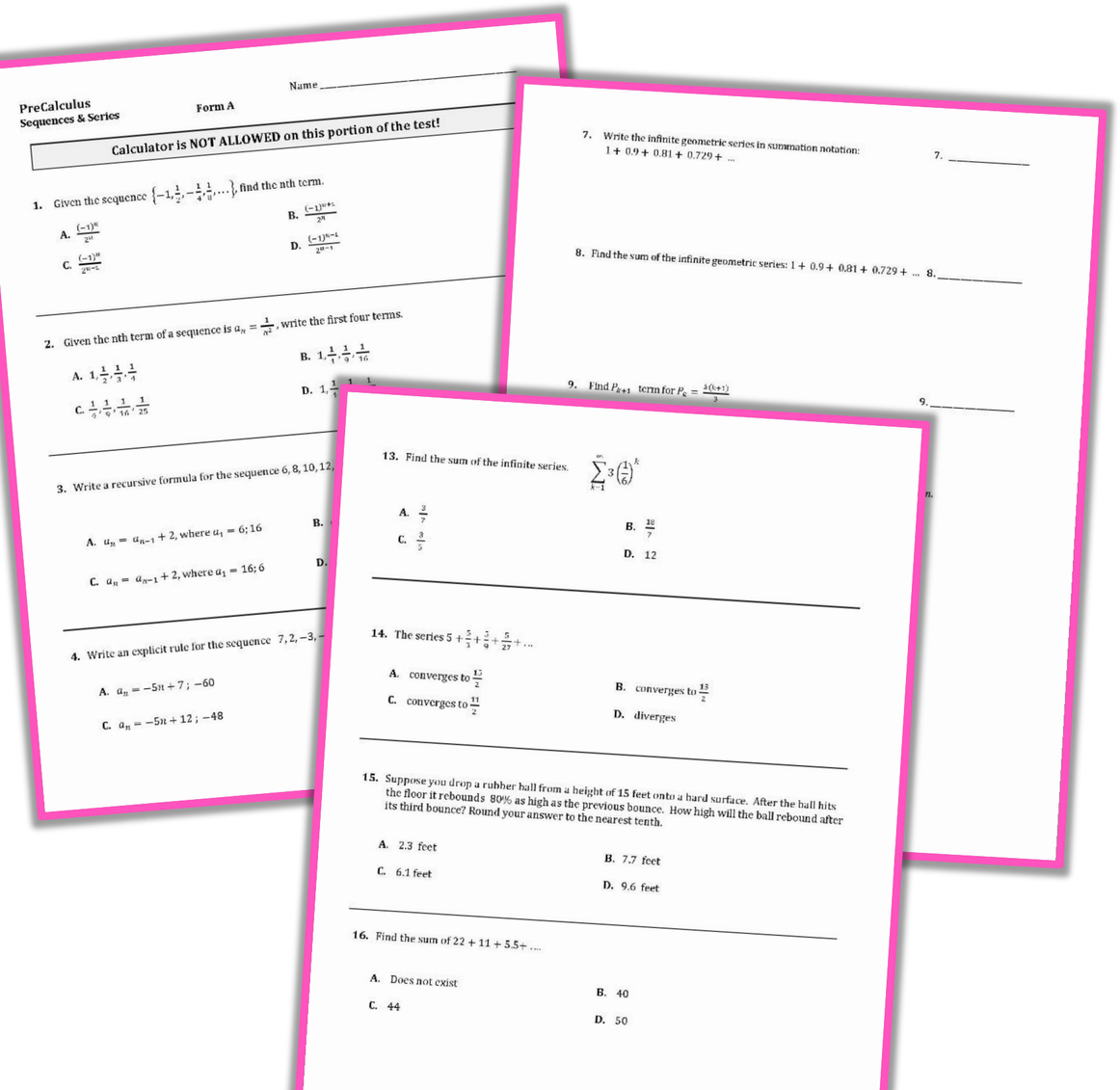
Are you searching for Precalculus Honors Assessments?

All new editable assessments and so much more to save you time

Take a look inside!



Rigorous assessments aligned to course standards is here.


PreCalculus
Sequences & Series
Form A
Name _____

Calculator is NOT ALLOWED on this portion of the test!

1. Given the sequence $\left\{-1, \frac{1}{2}, -\frac{1}{4}, \frac{1}{8}, \ldots\right\}$, find the nth term.

A. $\frac{(-1)^n}{2^n}$ B. $\frac{(-1)^{n+1}}{2^n}$ C. $\frac{(-1)^n}{2^{n-1}}$ D. $\frac{(-1)^{n-1}}{2^{n-1}}$

2. Given the nth term of a sequence is $a_n = \frac{1}{n^2}$, write the first four terms.

A. $1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}$ B. $1, \frac{1}{4}, \frac{1}{9}, \frac{1}{16}$ C. $\frac{1}{7}, \frac{1}{9}, \frac{1}{16}, \frac{1}{25}$ D. $1, \frac{1}{4}, \frac{1}{9}, \frac{1}{16}$

3. Write a recursive formula for the sequence 6, 8, 10, 12,

A. $a_n = a_{n-1} + 2$, where $a_1 = 6; 16$ B.
C. $a_n = a_{n-1} + 2$, where $a_1 = 16; 6$ D.

4. Write an explicit rule for the sequence $7, 2, -3, -$

A. $a_n = -5n + 7\,;\, -60$
C. $a_n = -5n + 12\,;\, -48$

7. Write the infinite geometric series in summation notation: $1 + 0.9 + 0.81 + 0.729 + \ldots$ 7. _____

8. Find the sum of the infinite geometric series: $1 + 0.9 + 0.81 + 0.729 + \ldots$ 8. _____

9. Find P_{k+1} term for $P_k = \frac{k(k+1)}{3}$ 9. _____

13. Find the sum of the infinite series. $\sum_{k=1}^{\infty} 3\left(\frac{1}{6}\right)^k$

A. $\frac{3}{7}$ B. $\frac{18}{7}$ C. $\frac{3}{5}$ D. 12

14. The series $5 + \frac{5}{3} + \frac{5}{9} + \frac{5}{27} + \ldots$

A. converges to $\frac{15}{2}$ B. converges to $\frac{43}{2}$ C. converges to $\frac{11}{2}$ D. diverges

15. Suppose you drop a rubber ball from a height of 15 feet onto a hard surface. After the ball hits the floor it rebounds 80% as high as the previous bounce. How high will the ball rebound after its third bounce? Round your answer to the nearest tenth.

A. 2.3 feet B. 7.7 feet C. 6.1 feet D. 9.6 feet

16. Find the sum of $22 + 11 + 5.5 + \ldots$

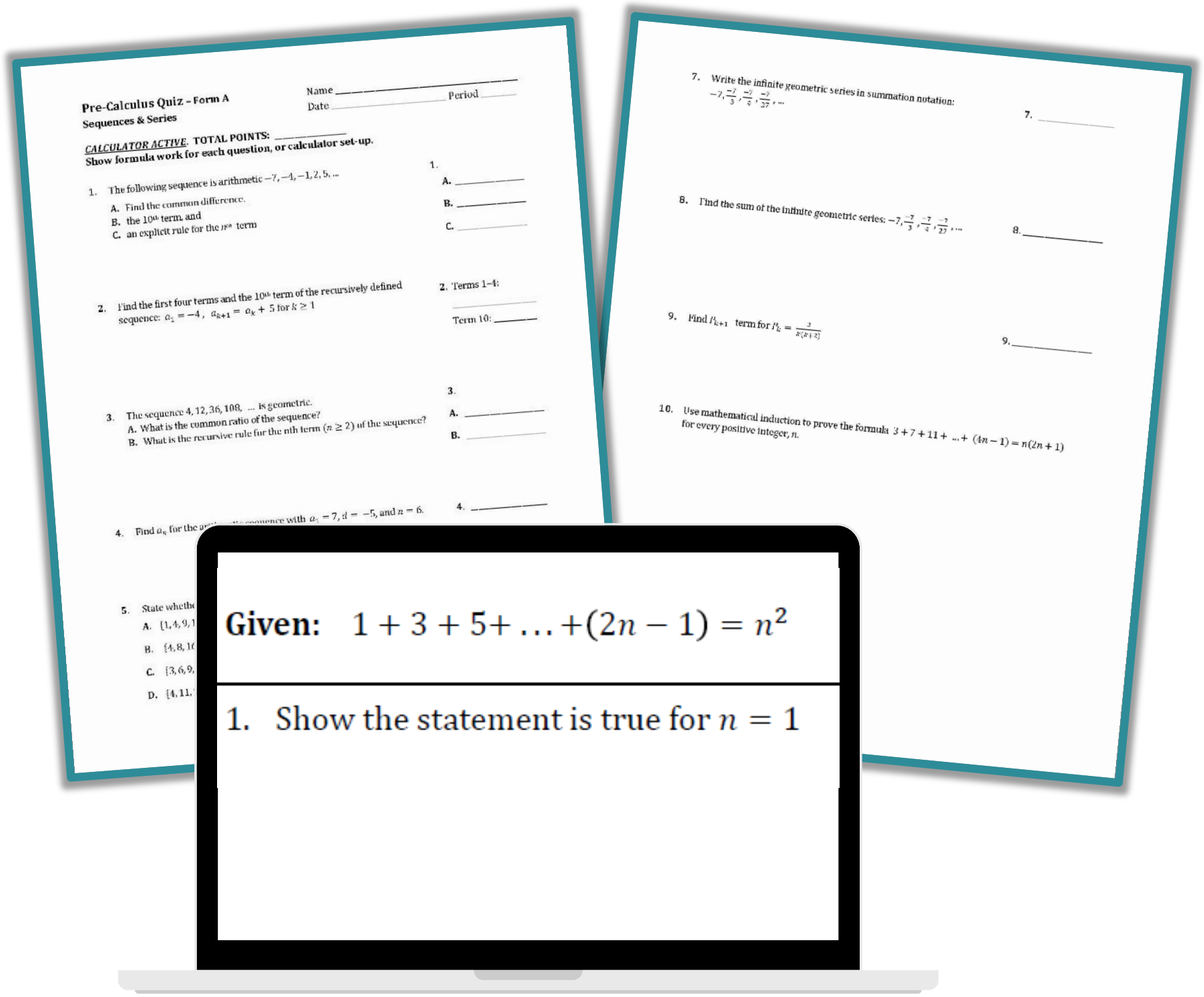
A. Does not exist B. 40 C. 44 D. 50

- Where do you find extra time to write rigorous Precalculus assessments?
- Is your class instruction aligned to the course learning objectives and topics?
- You need assessments that will challenge your students to the rigor of Precalculus Honors for success.

Flamingo Math will be your silent testing partner!

Flamingo Math by Jean Adams

WHAT IS INCLUDED?



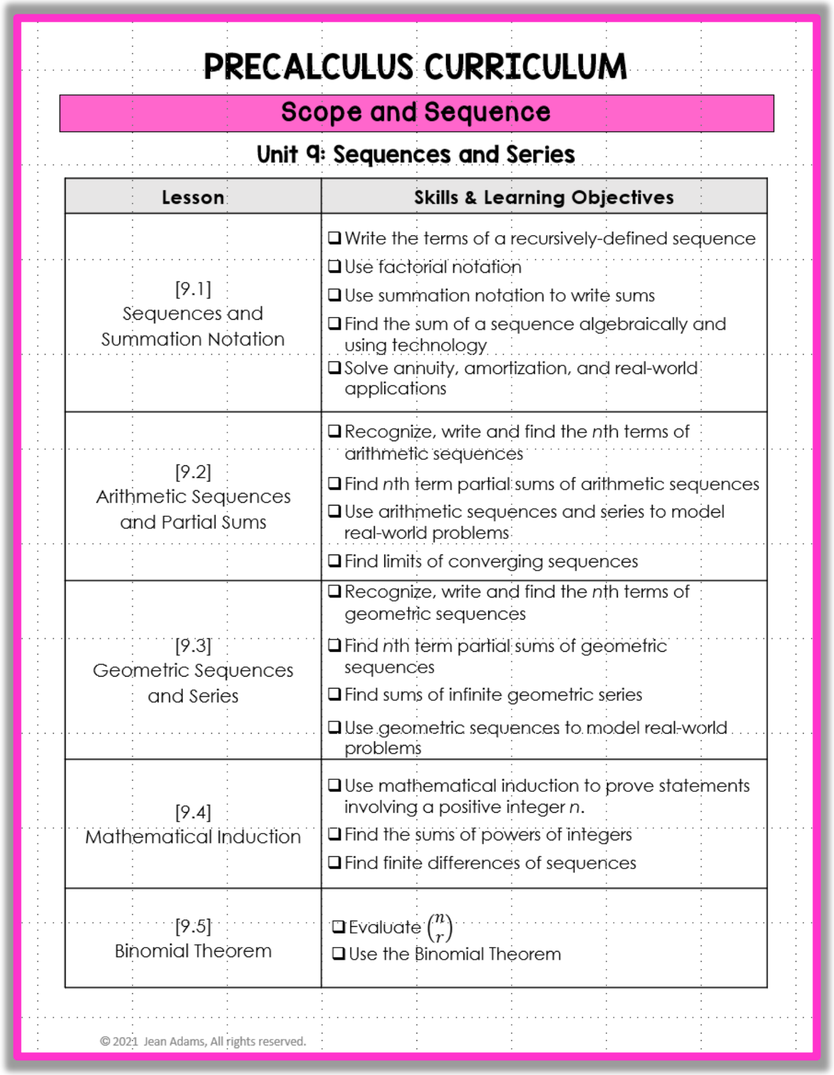
- Editable Review assignments
- Editable assessments
- Full solution sets
- Extra Practice Topics
- Scope and Sequence

Flamingo Math by Jean Adams

Cover the Standards

Each lesson will provide you and your students with the skills and learning objectives necessary for success in the Precalculus Honors 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 warm up, and assessment.
- ❑ An editable pacing guide for both learning objectives and lesson plans is provided.



PRECALCULUS CURRICULUM

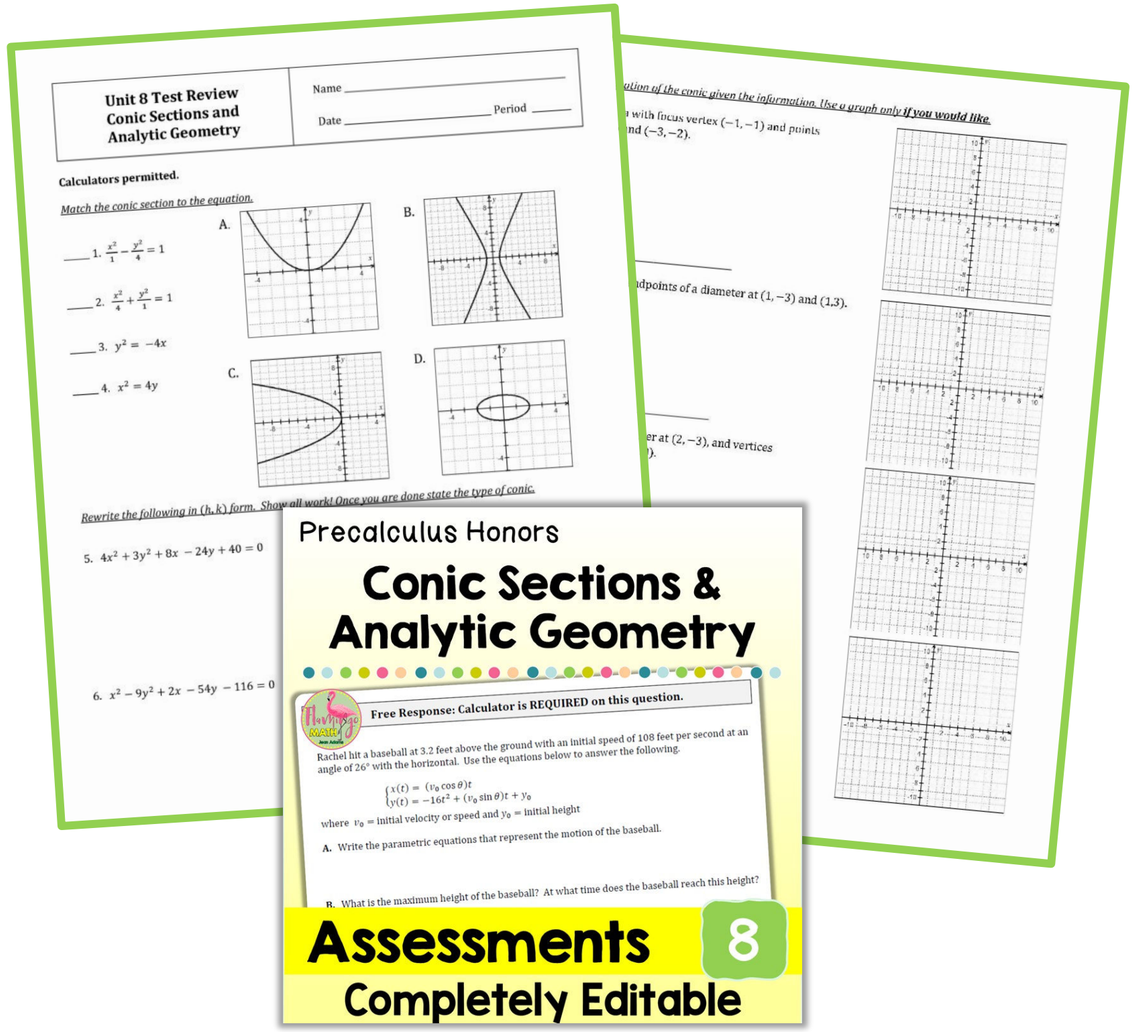
Scope and Sequence

Unit 9: Sequences and Series

Lesson	Skills & Learning Objectives
[9.1] Sequences and Summation Notation	❑ Write the terms of a recursively-defined sequence ❑ Use factorial notation ❑ Use summation notation to write sums ❑ Find the sum of a sequence algebraically and using technology ❑ Solve annuity, amortization, and real-world applications
[9.2] Arithmetic Sequences and Partial Sums	❑ Recognize, write and find the *n*th terms of arithmetic sequences ❑ Find *n*th term partial sums of arithmetic sequences ❑ Use arithmetic sequences and series to model real-world problems ❑ Find limits of converging sequences
[9.3] Geometric Sequences and Series	❑ Recognize, write and find the *n*th terms of geometric sequences ❑ Find *n*th term partial sums of geometric sequences ❑ Find sums of infinite geometric series ❑ Use geometric sequences to model real-world problems
[9.4] Mathematical Induction	❑ Use mathematical induction to prove statements involving a positive integer *n*. ❑ Find the sums of powers of integers ❑ Find finite differences of sequences
[9.5] Binomial Theorem	❑ Evaluate $\binom{n}{r}$ ❑ Use the Binomial Theorem

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Reviews from Happy Teachers!



> This resource was an excellent addition for my Precalculus Honors students. The mix of free response questions and the multiple choice is exactly what I was looking for. *Roberto F.*

> Great resource for Honors PreCalc kids!! It definitely made them dig deeper into functions, which is what they needed. *Vickie P.*

> Jean has great, thoughtful assessments. Excited to use in Precalculus this year! *Christina N.*

Full Year Curriculum

The MEGA Bundle provides ten units for you to design the perfect Precalculus Honors course for your state and district standards; including activities, video lessons, presentation tools, and so much more.

- Save over 20% when you purchase the full year curriculum bundle.
- Let Flamingo Math help you teach!

> I have the AP Calculus curriculum and it is awesome! I am so excited to use this for my Pre-Calculus classes! I know the students entering AP Calculus will be better prepared because of using this curriculum. Thank you very much! *Alicia B.*

