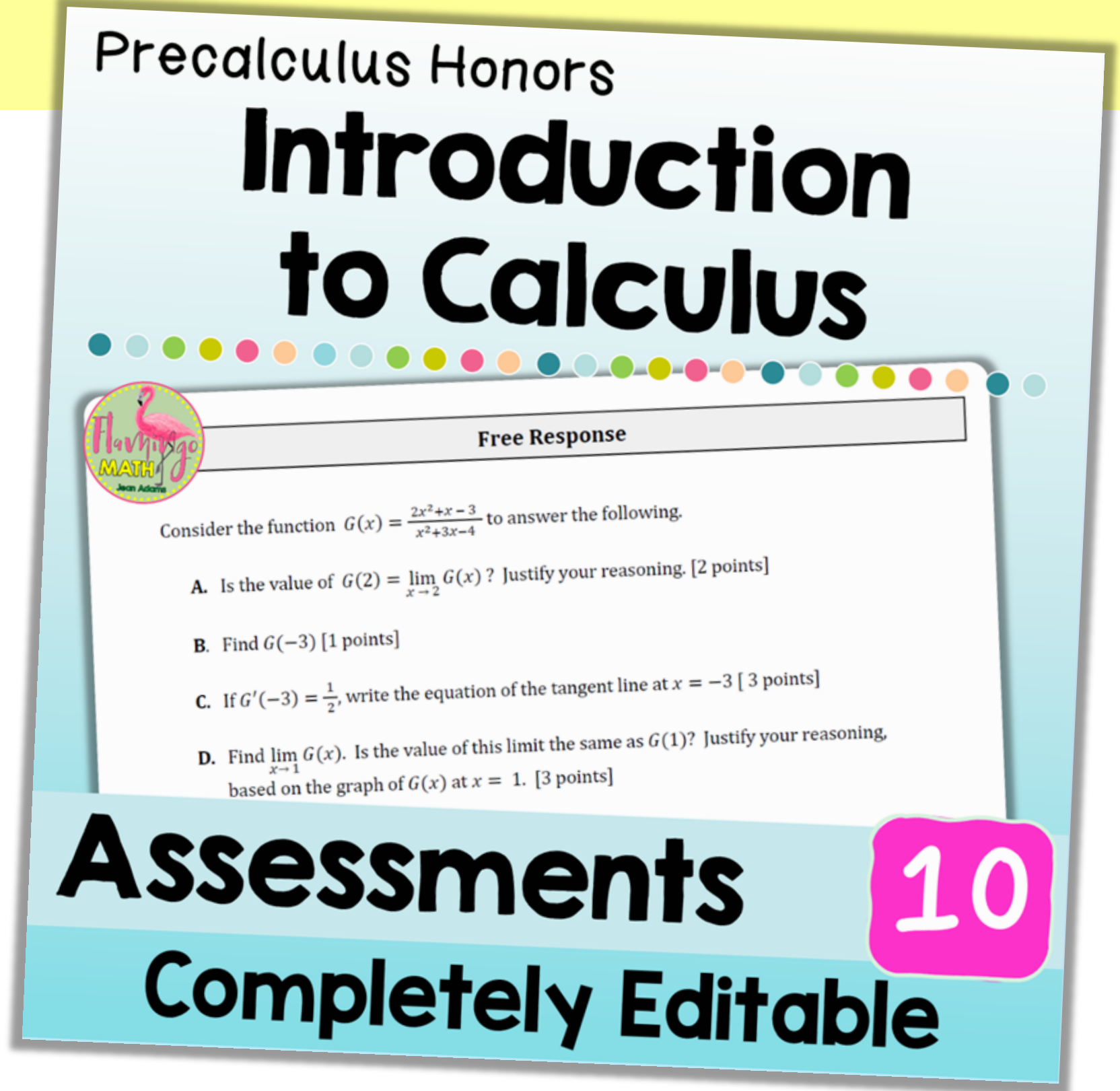
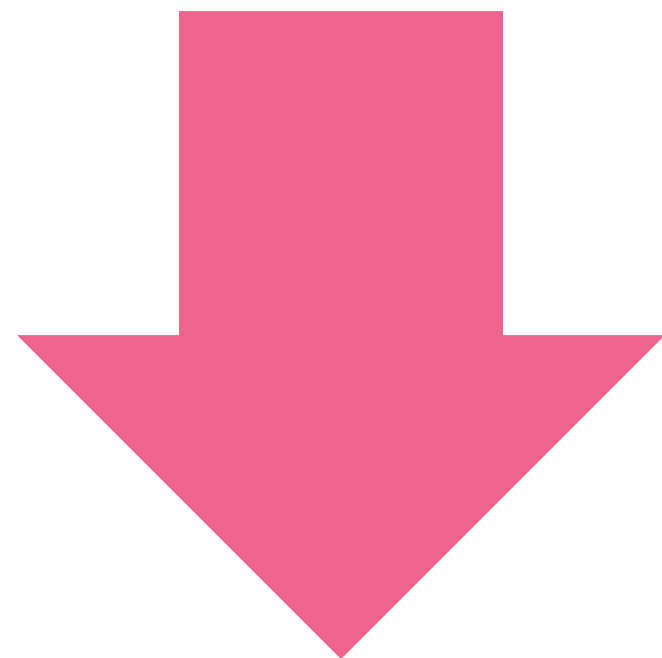


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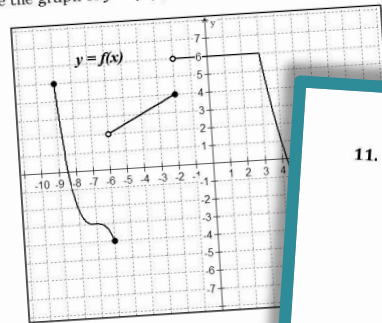
Pre-Calculus Quiz – Form A Intro to Calculus

Name: _____
Date: _____ Period: _____

Show all work! Evaluate all limits analytically, unless a graph or table is provided for you. It is expected that you use proper mathematical notation throughout. POINTS: _____

Calculators are NOT ALLOWED on this quiz!

Questions 1 – 10: Use the graph of $y = f(x)$ shown below to evaluate the following.



1. $\lim_{x \rightarrow -1} f(x) =$

3. $\lim_{x \rightarrow -6} f(x) =$

5. $\lim_{x \rightarrow -6} f(x) =$

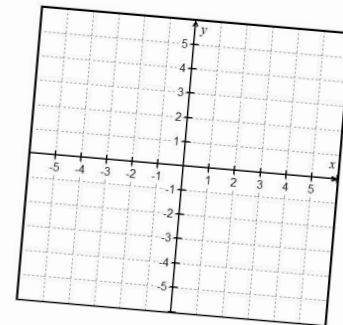
7. $\lim_{x \rightarrow -2^+} f(x) =$

Use the graph of $y = f(x)$, shown above, to name the

9. Name the x-coordinate(s) of any point discontinuities

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A) $\lim_{x \rightarrow 2^+} f(x) = 4$, $\lim_{x \rightarrow 2^-} f(x) = -1$, and $f(2) = 3$



Is the function continuous at $x = 2$? Explain/Justify.

11. Given $\lim_{x \rightarrow c} f(x) = -8$ and $\lim_{x \rightarrow c} g(x) = 4$, then find $\lim_{x \rightarrow c} ([f(x)]^2 - 3f(x)g(x) + [g(x)]^2)$

Questions 12 – 19, Evaluate each of the following limits.

12. $\lim_{x \rightarrow -5} 7$

13. $\lim_{x \rightarrow 3} \frac{x^2 - 9x + 18}{x - 3}$

14. $\lim_{x \rightarrow 4} \left(\cos \frac{\pi x}{3} \right)$

15. $\lim_{x \rightarrow 1} \frac{4}{(x-1)^2}$

16. $\lim_{x \rightarrow 2} \left(e^x \sin \frac{3\pi}{x} \right)$

17. $\lim_{x \rightarrow -2^+} \ln(x + 2)$

18. $\lim_{x \rightarrow \infty} \frac{3x^2 - 5x + 8}{2x^2 - 4x - 6}$

19. $\lim_{x \rightarrow -\infty} \frac{4x - x^2}{8 - x^3}$

20. Sketch the graph of any function f such that

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WHAT IS INCLUDED?



Editable Review assignments



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Full solution sets



Extra Practice Topics



Scope and Sequence

Pre-Calculus
Intro to Calculus Test

Form A

Name _____

Calculator NOT ALLOWED on this portion of the test!

1. Find the limit: $\lim_{t \rightarrow 5} \frac{t-5}{t^2-25}$

- A. $-\frac{1}{10}$
C. $\frac{1}{5}$

- B. $-\frac{1}{5}$
D. $\frac{1}{10}$

2. Find the limit or state that it does not exist: $\lim_{x \rightarrow 4} \frac{x^2+x-20}{x-4}$

- A. -20
C. 9

- B. -15
D. Does Not Exist

3. Compute the limit: $\lim_{h \rightarrow 0} \frac{(h+4)^2 - 16}{h}$

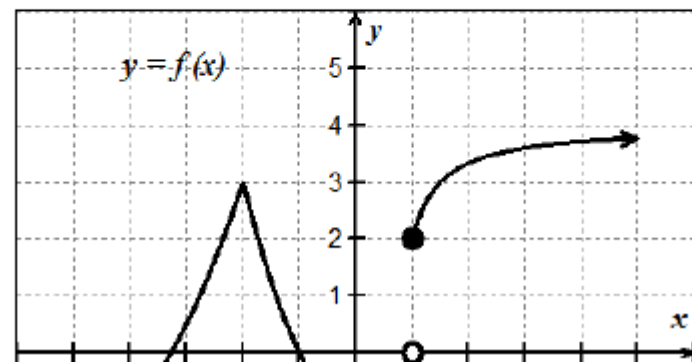
- A. 8
C. 6

- B. 7
D. 4

4. Evaluate: $\lim_{x \rightarrow 3^+}$

- A. 4
C. Cannot be determined

Problems 1 - 8, use the graph of, shown below to find the limit, if it exists.

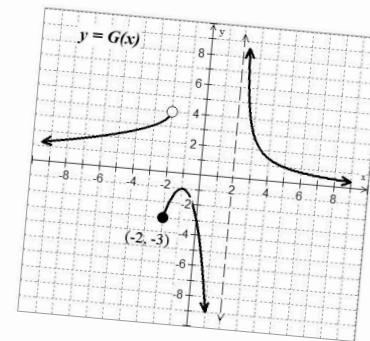


Problems 9 - 10, use the graph of the function, $G(x)$, shown at right.

9. Which of the following statements is/are true about the graph of $G(x)$?

- I. $\lim_{x \rightarrow -2^+} G(x) = G(-2)$
II. $\lim_{x \rightarrow 2^+} G(x) = \infty$
III. $\lim_{x \rightarrow -2} G(x) = -3$

- A. II only
B. III only
C. I and II only
D. II and III only



10. Which of the following limit(s) do(es) not exist?

- I. $\lim_{x \rightarrow -2} G(x)$
II. $\lim_{x \rightarrow 2} G(x)$
III. $\lim_{x \rightarrow -2} G(x)$
- A. I and II only
B. II and III only
C. I and III only
D. I only

discontinuous?

- B. -1, 2
D. -2, -1, 2, 4

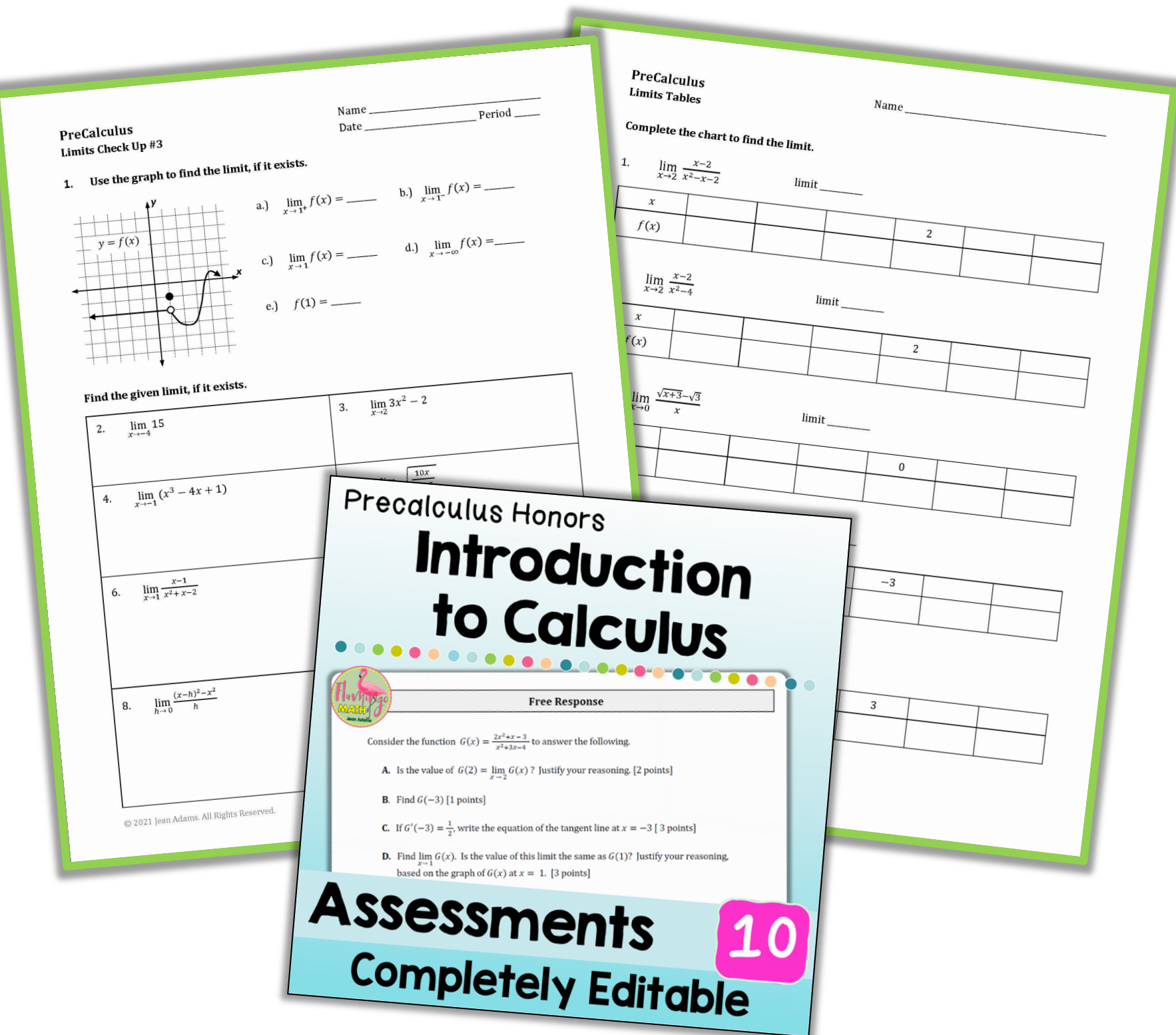
Cover the Standards

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 10: Introduction to Calculus	
Lesson	Skills & Learning Objectives
[10.1] Limits - A Graphical Approach	☐ Find one-sided limits ☐ Find general limits ☐ Finding limits by tables, graphically, and numerically
[10.2] Finding Limits Analytically	☐ Evaluate limits using substitution ☐ Evaluate limits using algebraic methods ☐ Evaluate limits using special trig functions
[10.3] Limits at Infinity and Continuity	☐ Apply the rules of continuity ☐ Find vertical asymptotes using limits ☐ Find horizontal asymptotes using limits
[10.4] The Derivative and Tangent Lines	☐ Find slope using the limit process ☐ Find the derivative at a point ☐ Use the difference quotient to find derivative
[10.5] Derivatives and the Power Rule	☐ Use basic rules to find derivatives ☐ Rewrite expressions to behave as powers to find derivatives using the power rule ☐ Find derivatives of negative and fraction powers
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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.* ”

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“

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.*

”

**PRECALCULUS
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