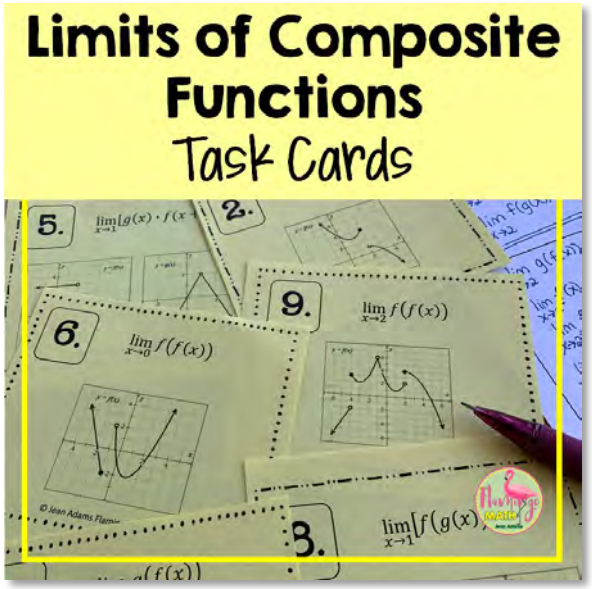


Limits of Composite Functions Task Card Activity

Your AP Calculus students will find limits of composite functions across multiple representations.

This is cooperative activity with 12 task cards. Each card presents a graph for a piecewise function. Students will use multiple representations and limit properties to find limits of composite functions. There is an extra bonus INFOGRAPHIC too.

College Board® Topics:

Topic 1.7: Selecting Procedures for Determining Limits
Topic 1.9: Connecting Multiple Representations of Limits

College Board® Learning Objectives:

Topic 1.7 is intended to focus on the skill of selecting an appropriate procedure for determining limits.
Topic 1.9 is intended to focus on connecting representations. Students should be given opportunities to practice when and how to apply all learning objectives relating to limits and translating mathematical information from a single representation or across multiple representations.

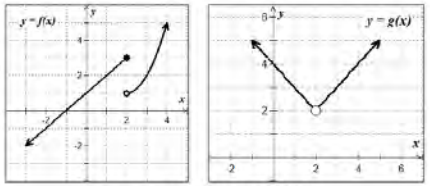
Teaching Suggestions:

- There is also an infographic handout that can be copied for use in student notebooks
- Copy a set of cards for each group of students.
- Copy a student recording page.
- It is recommended that students work together to find each limit, but should show their own work for the exercise in order to display proper mathematical notation.

Activity

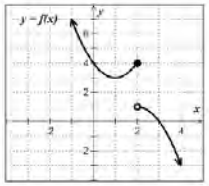
PREVIEW

1. $\lim_{x\to 2} f(g(x))$



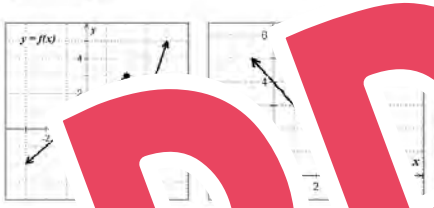
© Jean Adams Flamingo Math™, LLC

2. $\lim_{x\to 0} f(2 - |x|)$

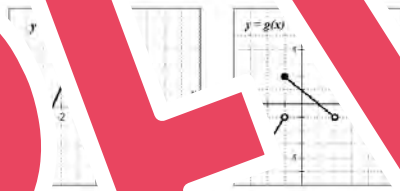


© Jean Adams Flamingo Math™, LLC

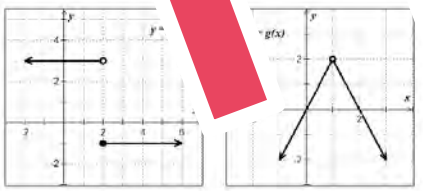
3. $\lim_{x\to 2} g(f(x))$



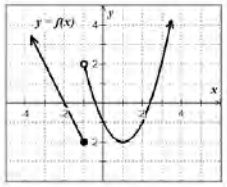
4. [illegible]



5. $f(x+2)$]

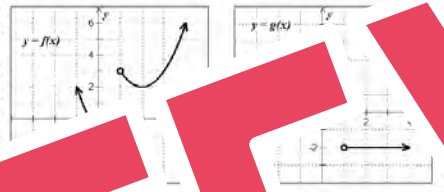


© Jean Adams Flamingo Math™, LLC

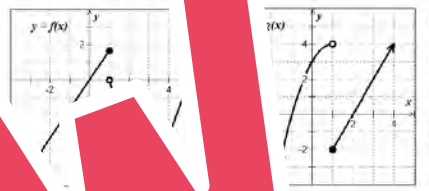


© Jean Adams Flamingo Math™, LLC

7. $\lim_{x\to 1}[f(x) + g(x)]$



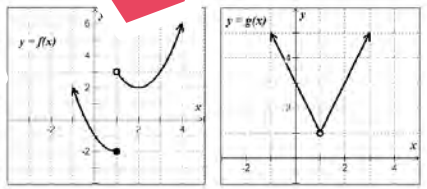
8. [illegible]$(x))]$



9. $\lim_{x\to 2}$ [illegible]

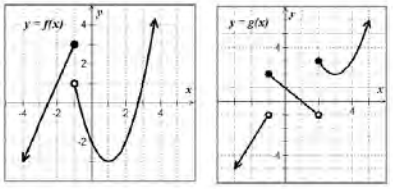


10. [illegible]$+1))$



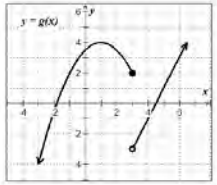
© Jean Adams Flamingo Math™, LLC

11. $\lim_{x\to 0}[f(x) + g(x-1)]$



© Jean Adams Flamingo Math™, LLC

12. $\lim_{x\to 0} g(3 - x^2)$



© Jean Adams Flamingo Math™, LLC

© Jean Adams Flamingo Math, LLC https://www.flamingomath.com/shop/

Activity


Limits of Composite Functions
Task Cards

Name _____

Date _____ Period _____

1.

2.

3.

4.

5.

© Jean Adams Flamingo Math™, LLC


7.

8.

9.

10.

11.

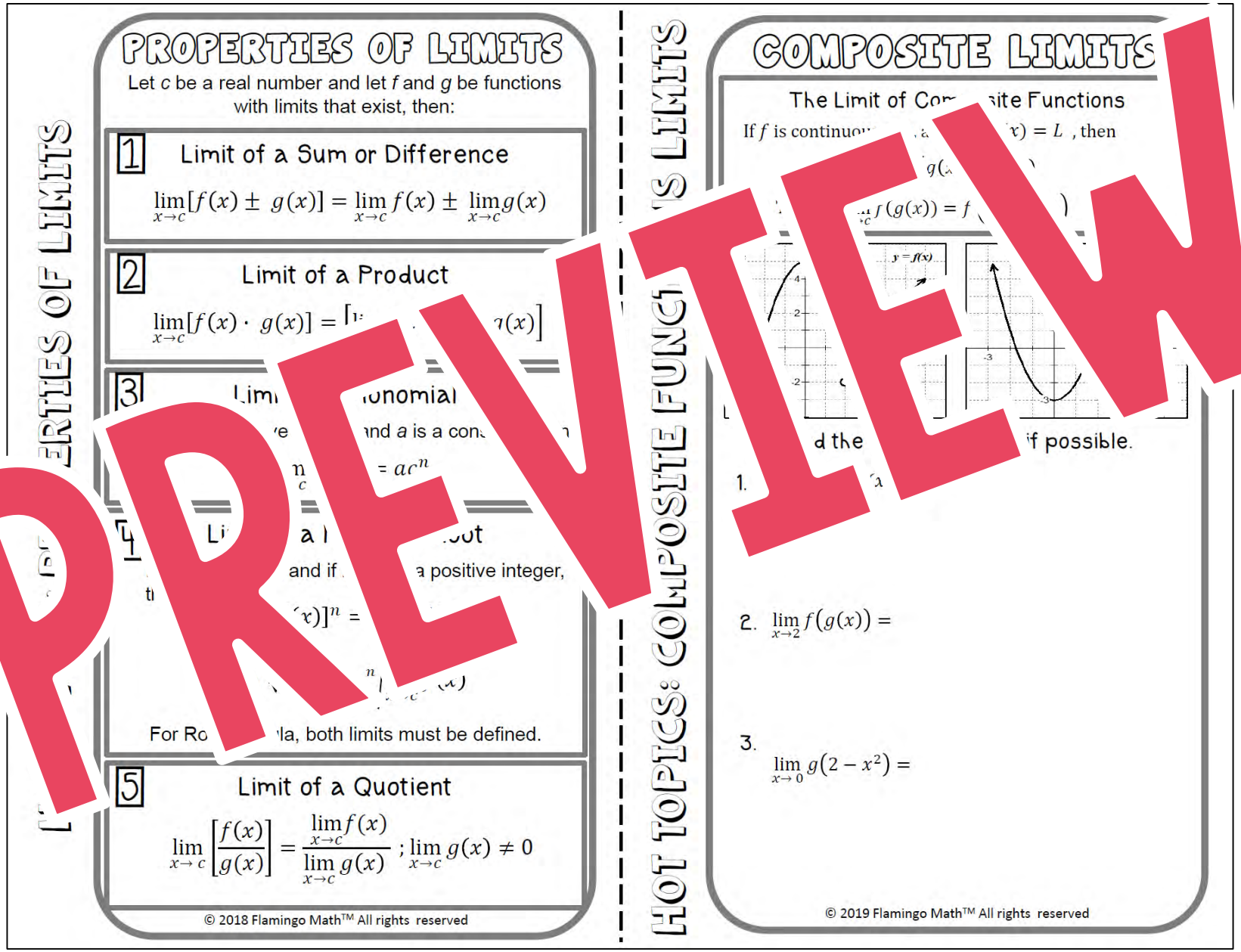
12.

© Jean Adams Flamingo Math™, LLC

PREVIEW

© Jean Adams Flamingo Math, LLC https://www.flamingomath.com/shop/

Infographic



PREVIEW

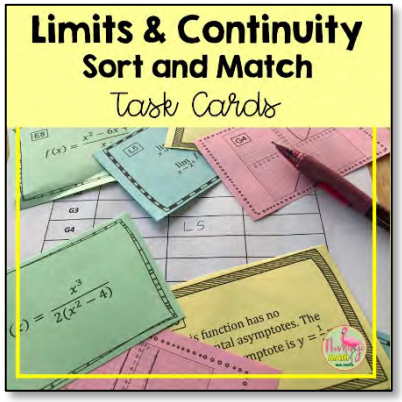
© Jean Adams Flamingo Math, LLC https://www.flamingomath.com/shop/

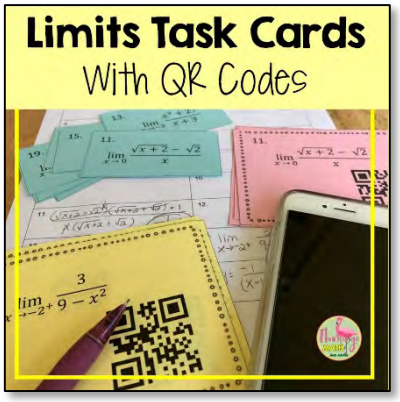


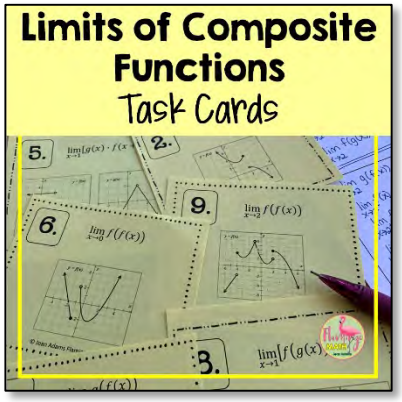
My goal is to help you bring balance into your teacher life by providing relevant content, engaging activities, and comprehensive assessments for your high-stakes math course.

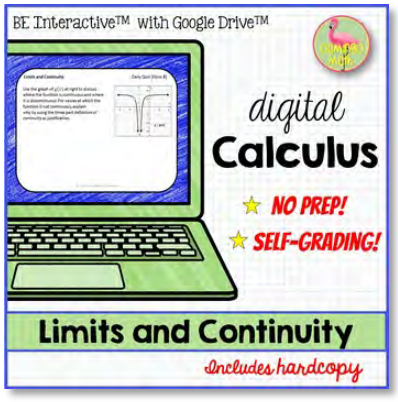
Jean

More Resources for YOU









Let's keep in touch! I'm here for you!

TPT

I appreciate your support and interest in my store.
Please email me with questions or comments:
jean@flamingomath.com

Sign up for my Newsletter to gain access to an Exclusive FREE Resource Library!

NEWS LETTER