

Limits Task Cards

With QR Codes



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Your AP Calculus students will be actively engaged in this QR Code Task Cards Activity as they review limit concepts.



ABOUT THE RESOURCE:

This is an activity with 20 task cards designed for the **Limits and Continuity Unit** in **AP Calculus**. Each card requires an analytic, algebraic, or numeric approach. Some of the functions are unbounded toward infinity. There are no questions asking for limits at infinity. This can be used very early in the course.

Teaching Suggestions:

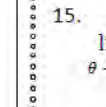
- Use the **QR Code cards** as a group activity.
- Use the **cards WITHOUT the QR Codes** as a quick review. There is a student recording sheet included.
- Have students check their results with the QR Answer sheet provided separately.

Task Cards

1. $\lim_{x \rightarrow 5} \frac{x^2 - 25}{x - 5}$ 	2. $\lim_{x \rightarrow 3} \frac{x - 3}{\frac{1}{x} - \frac{1}{3}}$ 
3. $\lim_{h \rightarrow 0} \frac{2 - \sqrt{4 + h}}{h}$ 	4. $\lim_{x \rightarrow 6} \frac{ x - 6 }{x - 6}$ 

5. $\lim_{x \rightarrow \frac{1}{2}} \frac{2x^2 - 11x + 5}{2x - 1}$ 	6. $\lim_{x \rightarrow 4^+} 3$ 
7. $\lim_{x \rightarrow 1} \frac{7}{-x^2}$ 	8. 

17. $\lim_{\theta \rightarrow 0} \frac{-81}{x}$ 	18. $\lim_{x \rightarrow 0} \frac{x + 2 - \sqrt{4}}{x}$ 
19. $\lim_{x \rightarrow 6} \frac{5x^2 -}{x}$ 	20. $\lim_{x \rightarrow 0} \frac{2x}{\sin 3x}$ 

9. $\lim_{x \rightarrow 0} \frac{\sin x}{x}$ 	10. $\lim_{x \rightarrow 3} \frac{2}{x - 3}$ 
11. $\lim_{x \rightarrow 0} \frac{3}{x}$ 	12. 

13. $\lim_{x \rightarrow -2} \frac{+27}{+3}$ 	14. $\lim_{x \rightarrow -2} \frac{3}{9 - x^2}$ 
15. $\lim_{\theta \rightarrow \frac{2\pi}{3}} \tan \theta$ 	16. $\lim_{x \rightarrow 1} \frac{-1}{(x - 1)^2}$ 

1.

$$\lim_{x \rightarrow 5} \frac{x^2 - 25}{x - 5}$$

2.

$$\lim_{x \rightarrow 3} \frac{x - 3}{\frac{1}{x} - \frac{1}{3}}$$

3.

$$\lim_{h \rightarrow 0} \frac{2 - \sqrt{4 + h}}{h}$$

4.

$$\lim_{x \rightarrow 6} \frac{|x - 6|}{x - 6}$$

5.

$$\lim_{x \rightarrow \frac{1}{2}} \frac{2x^2 - 11x + 5}{2x - 1}$$

6.

$$\lim_{x \rightarrow 4} \frac{x + \sin x}{x}$$

11.

$$\lim_{x \rightarrow 0} \frac{\sqrt{x+2} - \sqrt{2}}{x}$$

12.

$$\lim_{x \rightarrow 0} \frac{3 - \sqrt{x+9}}{x}$$

13.

$$\lim_{x \rightarrow -3} \frac{x^3 - 27}{x + 3}$$

14.

$$\lim_{x \rightarrow 1} \frac{1}{x}$$

15.

$$\lim_{x \rightarrow \frac{2}{3}} \frac{2x}{x+3}$$

16.

$$\lim_{x \rightarrow 1} \frac{1}{x}$$

17.

$$\lim_{x \rightarrow 3} \frac{x^2 - 9}{x - 3}$$

18.

$$\lim_{x \rightarrow 9} \frac{x^2 - 81}{\sqrt{x} - 3}$$

19.

$$\lim_{x \rightarrow 6} \frac{5x^2 - 26x - 24}{x - 6}$$

20.

$$\lim_{x \rightarrow 0} \frac{2x}{\sin 3x}$$

LIMITS TASK CARDS

Name: _____

1.



2.



3.



5.



7.



9.



10.



11.



12.

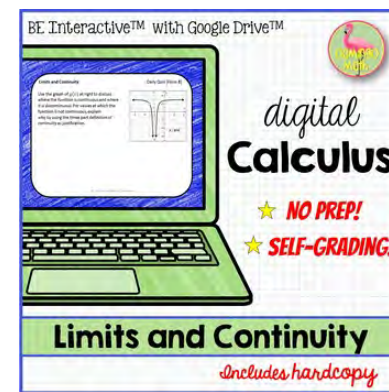
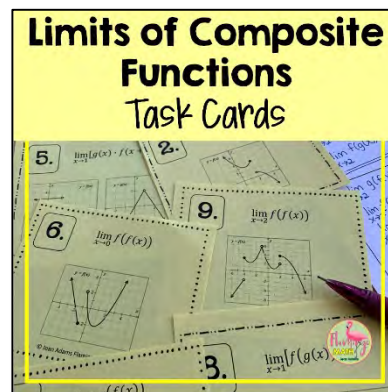
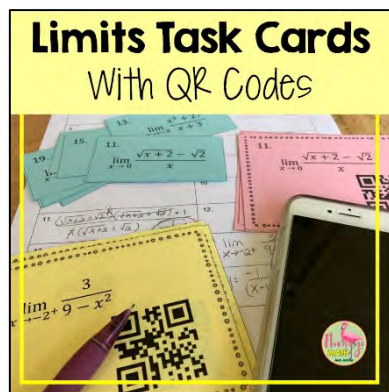
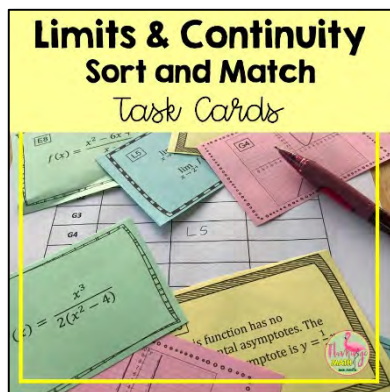




My goal is to help you bring balance into your teacher life by providing relevant content, engaging activities, and comprehensive assessments for your high-stakes math course.



More Resources for YOU



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