

Introduction to Limits Relay

TASK CARDS



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LIMITS RELAY ACTIVITY

This activity is designed to help your Pre-Calculus students practice finding limits by direct substitution and algebraic methods as a review for the unit on ***Intro to Calculus***. There are 30 task cards in the activity.

Lesson Objectives:

Students will find limits by using direct substitution, properties of limits, algebraic methods, special limit rules and rationalizing.

Copy the task cards on card stock and laminate for durability. I have also included six blank cards, as well as, answer sheets for each round of the relay.

1.
 $\lim_{x \rightarrow 1} \frac{x^2 - 1}{x - 1}$
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2.
 $\lim_{x \rightarrow 2} (5x - 3)$
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3.
 $\lim_{x \rightarrow -1} \frac{2x^2 - x - 3}{x + 1}$
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4.
 $\lim_{x \rightarrow \infty} \left(6 - \frac{2}{x^4}\right)$
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5.
 $\lim_{x \rightarrow -3} \frac{x^2 - 5x - 24}{x^2 - 3x - 18}$
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6.
 $\lim_{x \rightarrow 25} \frac{x - 25}{\sqrt{x} - 5}$
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7.
 $\lim_{x \rightarrow 5} \frac{2x^2 - 9x - 5}{x - 5}$
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8.
 $\lim_{x \rightarrow 0} \left(\frac{x + \sin 7x}{x}\right)$
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9.
 $\lim_{x \rightarrow 0} \frac{\sqrt{x+4} - 1}{x+3}$
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10.
 $\lim_{x \rightarrow -2} 12$
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11.
 $\lim_{x \rightarrow 1} \left(\frac{2}{3}x + 4\right)$
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12.
 $\lim_{x \rightarrow \infty} \left(\frac{5 - 3x^2}{x^2 + 2}\right)$
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13.
 $\lim_{x \rightarrow -3} |2x - 3|$
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14.
 $\lim_{x \rightarrow 0} \frac{x - 9}{\sqrt{x} - 3}$
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15.
 $\lim_{x \rightarrow 1} \frac{\sqrt{x+3} - 2}{x - 1}$
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16.
 $\lim_{x \rightarrow \infty} \frac{x^2 - 3x}{2x^2 + 5}$
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17.
 $\lim_{x \rightarrow -1} (x^3 - 4x + 1)$
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18.
 $\lim_{x \rightarrow 0} \frac{\sin 9x}{9x}$
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19.
 $\lim_{x \rightarrow 2} (x^2 - 2x - 8)$
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20.
 $\lim_{x \rightarrow 0} \left(\frac{\sin 10x}{x^2 + 5}\right)$
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21.
 $\lim_{x \rightarrow -5} (-5)$
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22.
 $\lim_{x \rightarrow 10} \sqrt{\frac{10x}{2x+5}}$
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23.
 $\lim_{x \rightarrow 1} \frac{x - 1}{x^2 + x - 2}$
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24.
 $\lim_{x \rightarrow 3} \frac{\sqrt{x+1} - 2}{x - 3}$
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25.
 $\lim_{x \rightarrow \infty} \frac{+1}{(2+x)}$
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26.
 $\lim_{x \rightarrow 0} \sin$
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27.
 $\lim_{x \rightarrow \infty} \frac{x^3 + 8}{x^2 + 4x - 12}$
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28.
 $\lim_{x \rightarrow 0} x \cos 2x$
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29.
 $\lim_{x \rightarrow 4} \frac{16}{4}$
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30.
 $\lim_{x \rightarrow 9} \frac{-36}{9}$
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31.
 $\lim_{x \rightarrow 0} \sin$
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32.
 $\lim_{x \rightarrow 0} \sin$
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33.
 $\lim_{x \rightarrow 0} \sin$
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34.
 $\lim_{x \rightarrow 0} \sin$
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35.
 $\lim_{x \rightarrow 0} \sin$
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36.
 $\lim_{x \rightarrow 0} \sin$
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LIMITS RELAY ROUND #1
TEAM MEMBERS:
ANSWERS:

LIMITS RELAY ROUND #2
TEAM MEMBERS:
ANSWERS:

LIMITS RELAY ROUND #3
TEAM MEMBERS:
ANSWERS:

LIMITS RELAY ROUND #4
TEAM MEMBERS:
ANSWERS:

LIMITS RELAY ROUND #5
TEAM MEMBERS:
ANSWERS:

LIMITS RELAY ROUND #6
TEAM MEMBERS:
ANSWERS:

LIMITS RELAY ACTIVITY

PREPARATION:

ANSWER KEY

2.	7
4.	6
6.	10
8.	8
10.	12
12.	-3
14.	6
16.	$\frac{1}{x}$
18.	1
20.	2
22.	2
24.	$\frac{1}{4}$
26.	does not exist
28.	0
29.	8
30.	-13

them apart. Note: If you use 6 cards for a sets on different colors of card stock to to your students.

with all answers correct. problems on white boards or paper. your overhead, students may work more in order to help their team score points.

that corresponds to the round, to the m. Without looking they should take a card wds to the person in front of them. When gin the round.

er the prompt to start is given. If they rent question from the overhead.

m finishes their question, they will write as it to the person in front of them to do ent of the room, this student will hand you ded. If there are mistakes give them the su can decide if you want to tell them which

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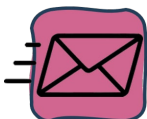
Meet the author:



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 Adams

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