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3.1 Moderator: helmut		[Moderator Control Panel]
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Author		Message
oula-khouzam	Post subject: 3.1	D Posted: Thu, 02 Apr 2020 10:02
S.O.S. Newbie	My answer is : Yes $F(x)$ has limit when $x0=0$ and the limit is 0. if I you want me to proof that, please let me know $\textcircled{9}$	
Joined: Tue, 31 Mar 2020 17:23 Posts: 4		!? () ×
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Jocelyne Perez	Post subject: Re: 3.1	D Posted: Thu, 02 Apr 2020 14:04
offline Math Cadet	We can see from the figure that the left and right side, the function tends to 0. if you have a better way of proving this it will be very helpful. Thank you!	
Joined: Tue, 31 Mar 2020 15:27 Posts: 6		. ? () ×
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oula-khouzam	Post subject: Re: 3.1	D Posted: Fri, 03 Apr 2020 12:24
offline S.O.S. Newbie Joined: Tue, 31 Mar 2020 17:23 Posts: 4	since the question didn't ask to proof it, I tried to skip that part $\widehat{\boldsymbol{\Theta}}$. But I will do it for you $\widehat{\boldsymbol{\Theta}}$ by the limit def. what we have to do is to proof that: $\forall \epsilon > 0$, $\exists \delta$ such that $ f(x) - L < \epsilon$ whenever $0 < x - x0 < \delta$ and $x \in D$ in this case L=0, x0=0, F(x)=xsin(1/x) if x is not = 0, $x \in \mathbb{R}$ Now let $\epsilon > 0$, suppose $0 < x - 0 < \delta$ and assume that $\delta = \epsilon$ so we can write $0 < x < \epsilon$, now we all know that $ xsin(1/x) \leq x $ { since $ sin(1/x) \leq 1$ } so $ xsin(1/x) < 1$ } so $ xsin(1/x) < \epsilon \Rightarrow xsin(1/x) - 0 < \epsilon$ for all $x \in R$ and $ x - 0 < \delta$ Done.	

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Jocelyne Perez	Post subject: Re: 3.1	D Posted: Sat, 04 Apr 2020 14:40	
offline	Thank you. I appreciate it.		
Math Cadet			
Joined: Tue, 31 Mar 2020 15:27 Posts: 6		× Ø ? !	
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helmut	Post subject: Re: 3.1	Dested: Sun, 05 Apr 2020 16:30	
(online)	Correct. 1 credit to Oula. 😁		
Site Admin	If you want to continue the discussion, start a new topic in "Questions" with the same title.		
	The greater danger for most of us lies not in setting our air low, and achieving our mark Michelangelo Buonarroti	n too high and falling short; but in setting our aim too	
Joined: Sat, 26 Apr 2003 15:14 Posts: 2220 Location: El Paso TX (USA)		× ? !	
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