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4.4

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Author

Message

oula-khouzam

Post subject: 4.4

Posted: Mon, 27 Apr 2020 19:30

[offline](#)

Is $f(x)$ continuous at $x_0 = 0$? Yes

Member

pf:

Joined: Tue, 31 Mar 2020 17:23

from 3.1 : we found that the limit for $f(x)$ when $x \rightarrow 0$ is $= 0$.

Posts: 21

from 4.1 : we knew that : the function $f : D \rightarrow R$ is continuous at x_0 iff $\lim f(x) = f(x_0)$ when $x \rightarrow 0$.

so, since $f(0)=0$

then $f(x)$ is continuous at $x_0 = 0$.

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Abigail Chaidez

Post subject: Re: 4.4

Posted: Sat, 02 May 2020 13:29

[offline](#)

Hi Oula,

Member

So what you are saying is that using problem 3.1 you prove the second part of the definition from problem 4.1 which is why you are allowed to say that $x_0 = 0$ is continuous?

Joined: Tue, 31 Mar 2020 14:55

Posts: 15

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oula-khouzam

Post subject: Re: 4.4

Posted: Sat, 02 May 2020 17:26

[offline](#)

Yes.

Member

Joined: Tue, 31 Mar 2020

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17:23

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helmut

Post subject: Re: 4.4

Posted: Sun, 03 May 2020 12:47

online

Done. One credit for Oula.

Site Admin



The greater danger for most of us lies not in setting our aim too high and falling short; but in setting our aim too low, and achieving our mark. - Michelangelo Buonarroti



Joined: Sat, 26 Apr 2003

15:14

Posts: 2264

Location: El Paso TX (USA)

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