

Re: Does the series $1 - 1/2 - 1/3 + 1/4 + 1/5 - 1/6 - 1/7 + 1/8 + 1/9 + \dots$ converges?

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Source: <http://sci.tech-archive.net/Archive/sci.math/2005-04/msg00537.html>

- *From:* A N Niel <anniel@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Sun, 03 Apr 2005 15:12:05 -0400
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In article <882ebff2.0504030724.14392f8f@xxxxxxxxxxxxxxxxxxxxxxxx>, dalthman <dalthman@xxxxxxxxxxxx> wrote:

- > Does the series $1 - 1/2 - 1/3 + 1/4 + 1/5 - 1/6 - 1/7 + 1/8 + 1/9 + \dots$
- > converges?
- >
- > And also how can we know whether such kind of series converge or not?

Yes, the absolute values $1, 1/2, 1/3, \dots$ decrease to zero,
and the sign series $1-1-1+1+1\dots$ has bounded partial sums.

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- *Follow-Ups:*
 - ◆ [Re: Does the series \$1 - 1/2 - 1/3 + 1/4 + 1/5 - 1/6 - 1/7 + 1/8 + 1/9 + \dots\$ converges?](#)
◇ *From:* Justin Young
- *References:*
 - ◆ [Does the series \$1 - 1/2 - 1/3 + 1/4 + 1/5 - 1/6 - 1/7 + 1/8 + 1/9 + \dots\$ converges?](#)
◇ *From:* dalthman
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- Next by Date: [Re: Coprimeness - I think I'm confused, but I'm not sure](#)
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