

Re: Two little integrals

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-07/msg01527.html>

- *From:* Dave Seaman <dseaman@xxxxxxxxxxxx>
 - *Date:* Mon, 11 Jul 2005 03:21:14 +0000 (UTC)
-

On 10 Jul 2005 19:49:21 -0700, novelo wrote:
 > Hi. I went to mathematica, but it does not solve this integral
 > Sqrt[sin[Sqrt[x]]]

It does if you spell "Sin" with a capital "S".

In[1]:= Integrate[Sqrt[Sin[Sqrt[x]]],x]

3/2

Out[1]= Sin[Sqrt[x]] (

5 7 2

4 Sqrt[x] Cos[Sqrt[x]] Hypergeometric2F1[1, -, -, Sin[Sqrt[x]]]

4 4

> -----

3

5 5 7 9 2

Pi HypergeometricPFQ[{1, -, -}, {-, -}, Sin[Sqrt[x]]] Sin[Sqrt[x]]

4 4 4 4

> -----)

7 9

4 Sqrt[2] Gamma[-] Gamma[-]

4 4

> Are all integrals solvable?

Depends on what you mean.

--

Dave Seaman

Judge Yohn's mistakes revealed in Mumia Abu-Jamal ruling.

<<http://www.commoncouragepress.com/index.cfm?action=book&bookid=228>>

.

Re: Two little integrals

- **References:**

- ◆ **Two little integrals**
 - ◇ From: novelo
- ◆ **Re: Two little integrals**
 - ◇ From: Anon
- ◆ **Re: Two little integrals**
 - ◇ From: novelo

- Prev by Date: **Re: What calculus text should I cite for l'Hopital's Rule?**
- Next by Date: **Re: scale transformation**
- Previous by thread: **Re: Two little integrals**
- Next by thread: **A Reverse Integer Triangle, Consecutive Integer Sums, And Potential Primes**
- Index(es):
 - ◆ **Date**
 - ◆ **Thread**