

# Re: Doubt about formula transcription

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*Source:* <http://coding.derkeiler.com/Archive/Fortran/comp.lang.fortran/2008-04/msg00329.html>

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- *From:* e p chandler <epc8@xxxxxxxx>
  - *Date:* Mon, 7 Apr 2008 13:36:08 -0700 (PDT)
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On Apr 7, 4:09 pm, "Michael Metcalf" <michaelmetc...@xxxxxxxxxxxxxxxx> wrote:

"Leonardo Marques" <surf...@xxxxxxxx> wrote in message

[news:9c4bdee7-084e-4644-8b90-74cbef524878@xx](mailto:news:9c4bdee7-084e-4644-8b90-74cbef524878@xx)

hey guys,

im with a little problem when im transcribing a math formula from maple to fortran, because when i put a solution on the equation, i got a result diferent from zero.

The formula is:  $2 \cdot \arctan(\sin(a) \cdot \cos(a) / (.8 - \cos(a)^2)) - 4/9 \cdot \pi$  ;  
I've transcribed to fortran as:  $2 \cdot \text{atan}((\sin(a) \cdot \cos(a)) / (0.8 - \cos(a)**2)) - ((\pi) * 4/9)$

I don't know Maple, but in Fortran 4/9 gives zero. Try 4.0/9.0.

Regards,

Mike Metcalf

The underlying mess has masked the implicit typing of K as INTEGER.  
k=0.8 sets K to 0. :-(.  
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