Subject: Problem 4
Posted by jarobinson3 on Fri, 19 Aug 2016 23:35:32 GMT

What is the significance of the values n and y in the example? Is this some modification of the nth root algorithm?

Edit:

From the book (page 21-25) it seems y is the current guess and x is the number we are trying to find the fifth root of.

Subject: Re: Problem 4
Posted by jwlichtle on Sun, 21 Aug 2016 03:55:41 GMT

What level of decimal precision will be required by a guess in order to be considered a correct answer?

Subject: Re: Problem 4
Posted by jarobinson3 on Sun, 21 Aug 2016 04:03:51 GMT

Anything that is within 1E-6 should be good enough.

Subject: Re: Problem 4
Posted by lusth on Sun, 21 Aug 2016 15:03:23 GMT

^ percentage

Subject: Re: Problem 4
Posted by gjbowen on Fri, 26 Aug 2016 07:39:51 GMT

I modified my code to use percentage and now it's not playing nice with lengthy decimals, particularly with root 5 of 2.

Inspecting the following variables should return true to make my program work:
guess is 1.1486983550
x is 2
(/ (^ guess 5) x) is 1.0000000000
(= (/ (^ guess 5) x) 1.0000000000) is #f

any suggestions?

Subject: Re: Problem 4
Posted by lusth on Fri, 26 Aug 2016 11:17:33 GMT
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2.0000 cannot be represented exactly in floating point, so, as a general rule, never use equality to compare calculated real numbers. Stop when things are "close enough".