

Re: Geometry with circle and three points.

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- *From:* "[Mr.] Lynn Kurtz" <kurtz@xxxxxxxxxxxxxxxxxx>
  - *Date:* Fri, 24 Aug 2007 17:50:06 GMT
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On Sat, 25 Aug 2007 02:41:47 +0900, "mina\_world"  
<mina\_world@xxxxxxxxxx> wrote:

Hello sir~

Three points determine a unique circle.  
= There is a unique circle that passes through the three points  
(Of course, they are not on the same line.)

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Since there is circumscribed circle, Existence is trivial.

You are *\*assuming\** existence when you say "there is a circumscribed circle". You have to prove that, and the usual way to prove it determines the center in a unique way. Look at how the circumscribed circle for a triangle is constructed.

--Lynn

I want to show the Uniqueness.  
But I don't know well.  
So, I need your advice.