Given < and while the a is the distance between

PE1 = C\* ,

PE2 = C\* ,

Wants to proof that |PE2| >| PE1|:

|C\* | | C\* |

Cancel C and from both sides and then take off the absolute value

>

Take off the cubical root for each side

>

Take the reciprocal for each side

<

Knowing that:

and

Thus our assumption is correct that |PE2| >| PE1|