

What is range of the dot product of two position vectors in the three-dimensional of which the end point of one is on a sphere?

3차원 공간에서 두 위치벡터에 대하여 한 위치 벡터의 종점이 구 위에 있을 때 두 위치벡터의 내적의 범위는 무엇인가?

(What is range of the dot product of two position vectors in the three-dimensional of which the end point of one is on a sphere?)

What is range of the dot product of two position vectors in the three-dimensional of which the end point of one is on a sphere?

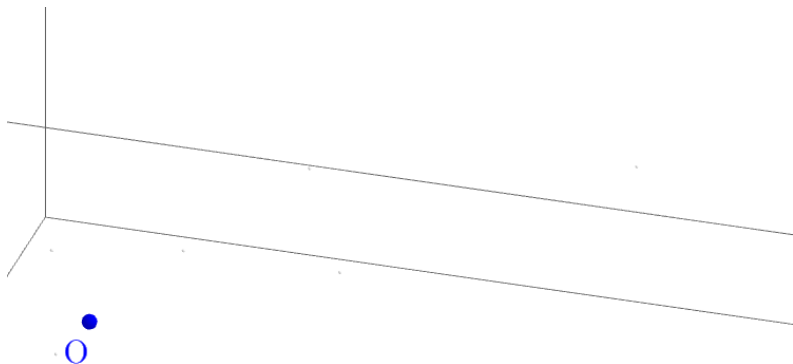
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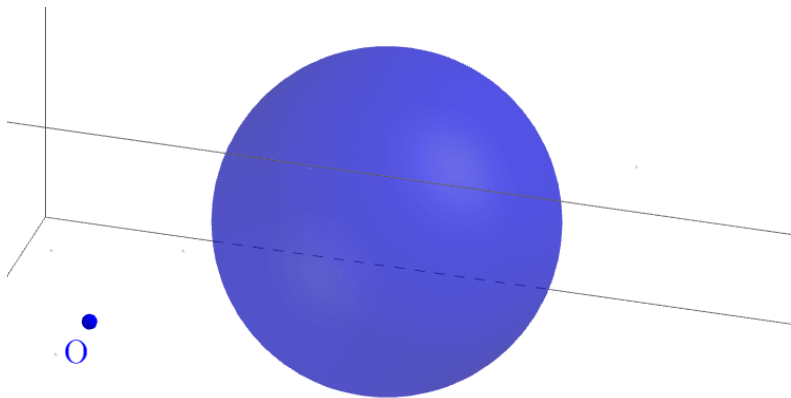
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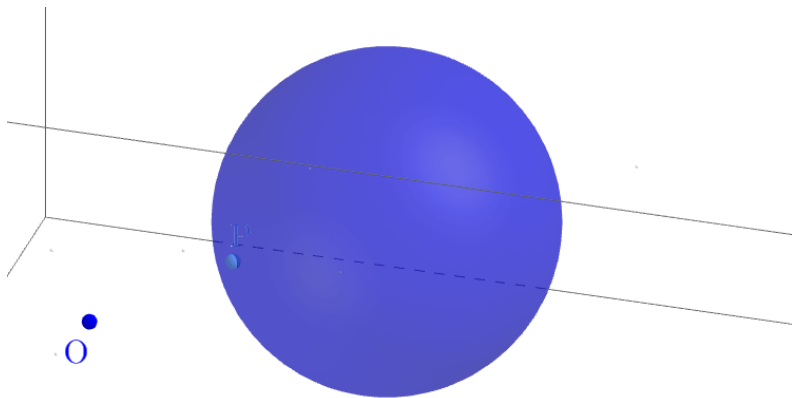
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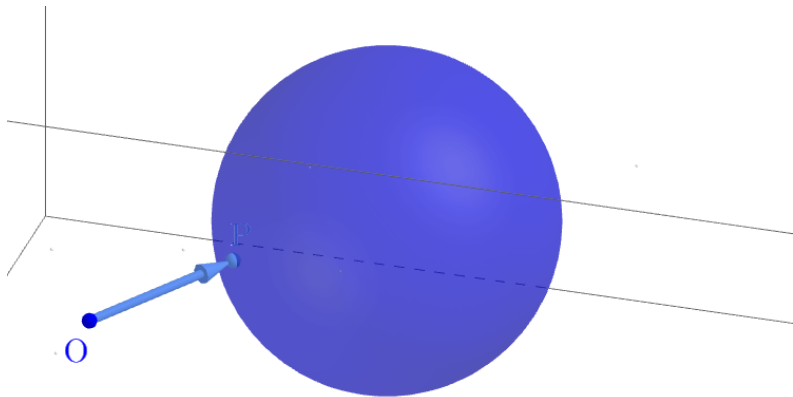
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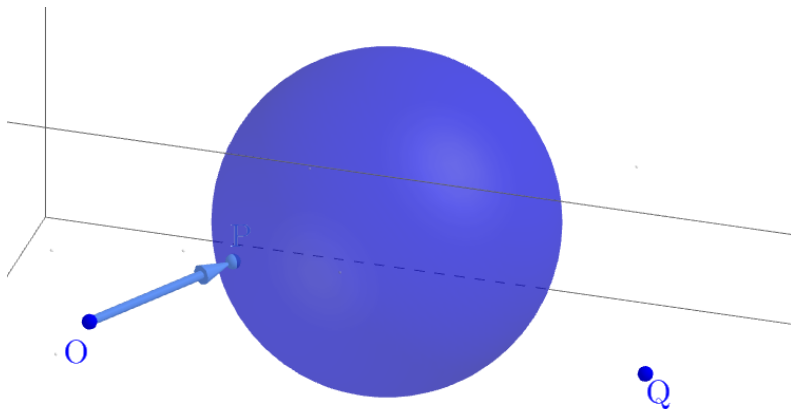
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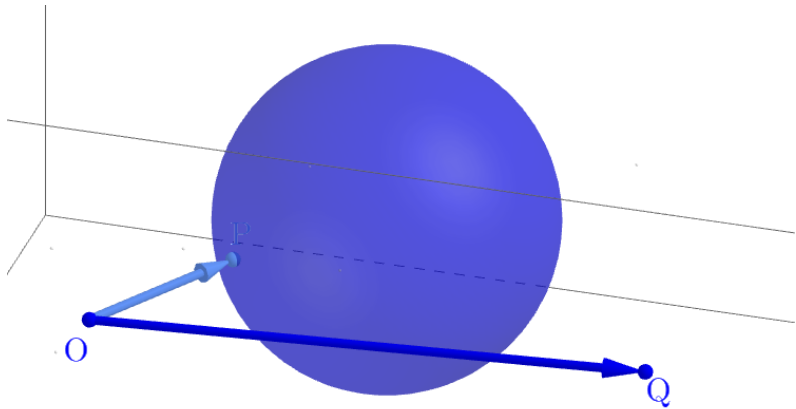
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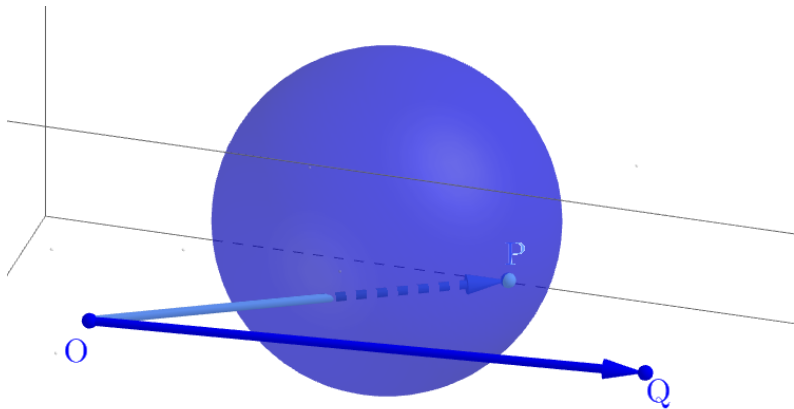
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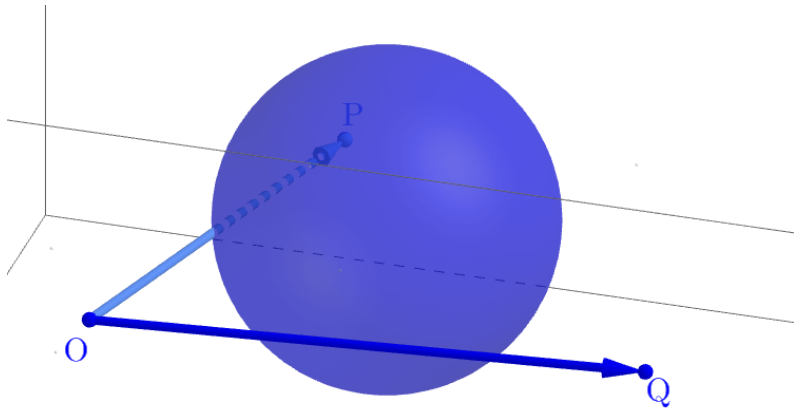
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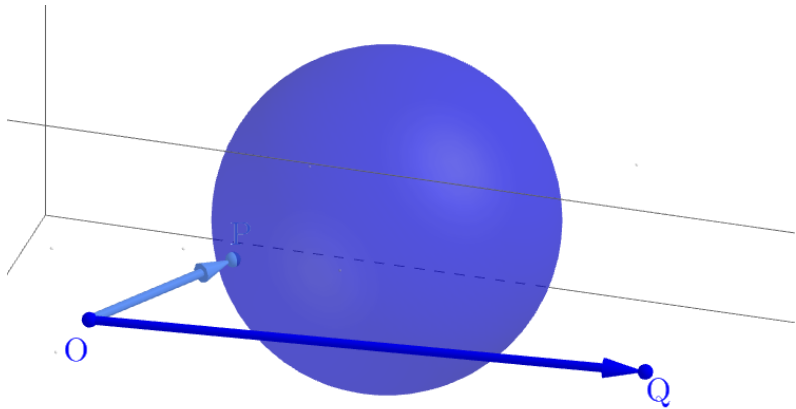
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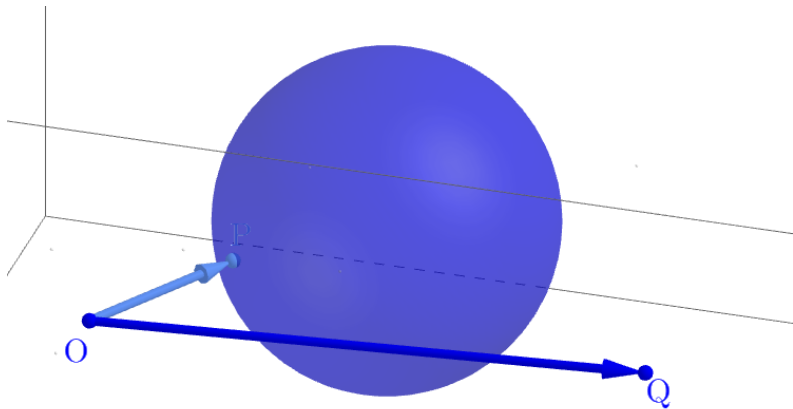
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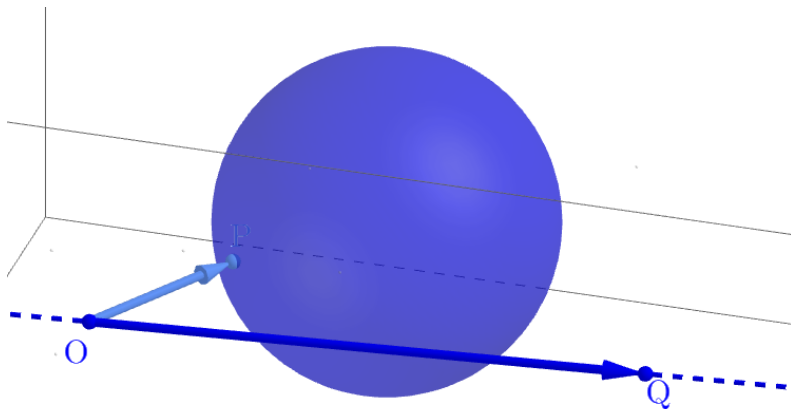


$$\overrightarrow{OP} \cdot \overrightarrow{OQ}$$

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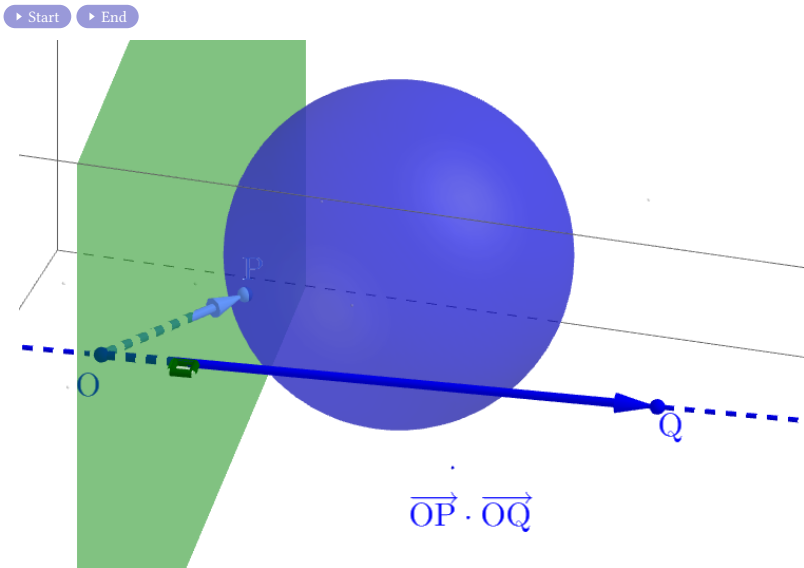
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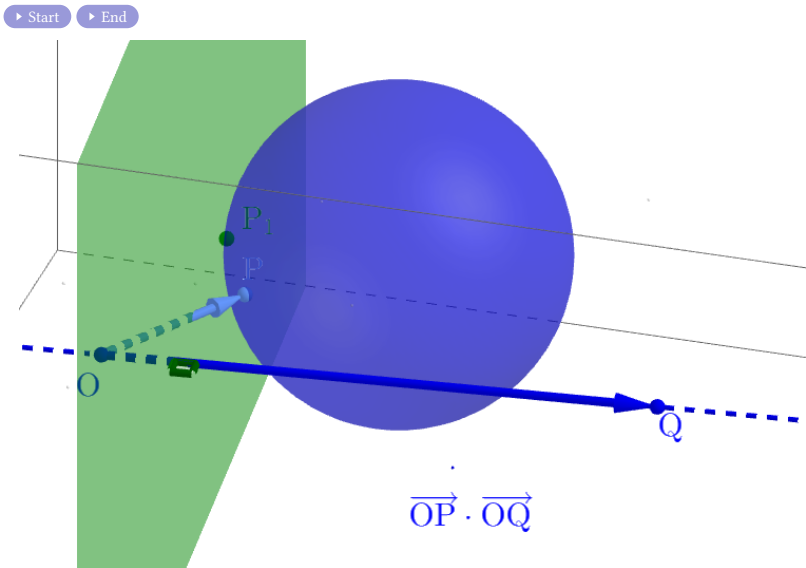


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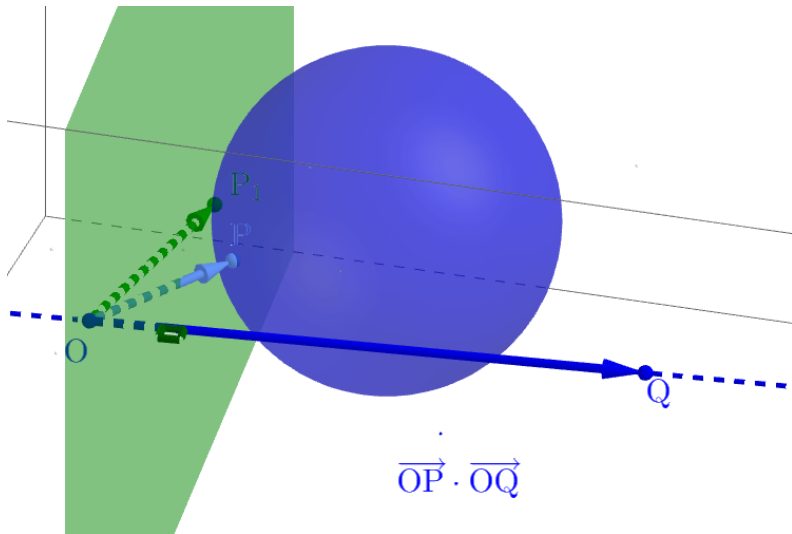
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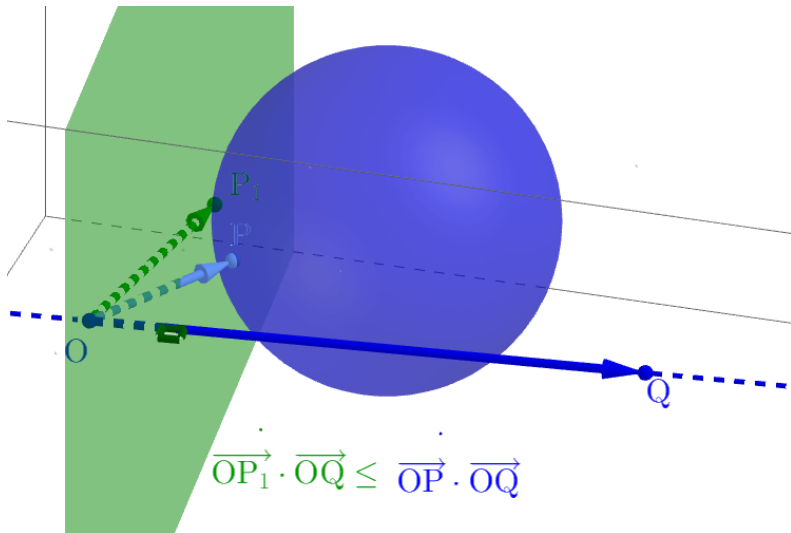
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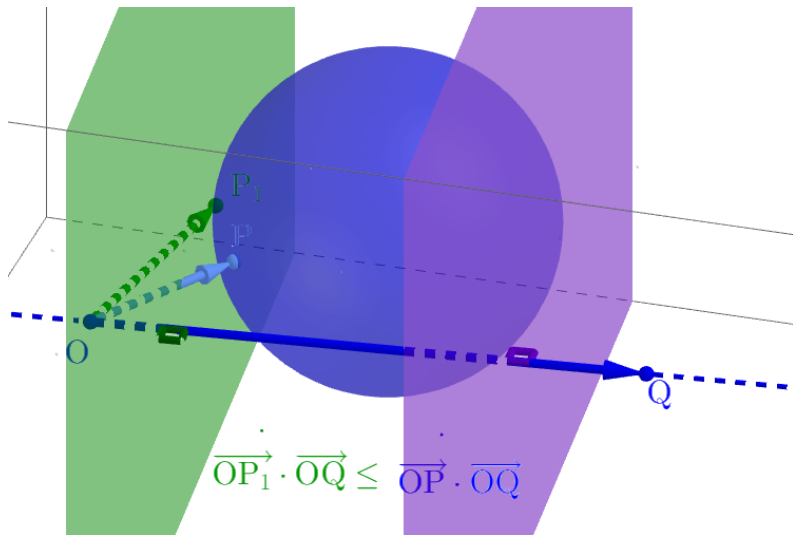
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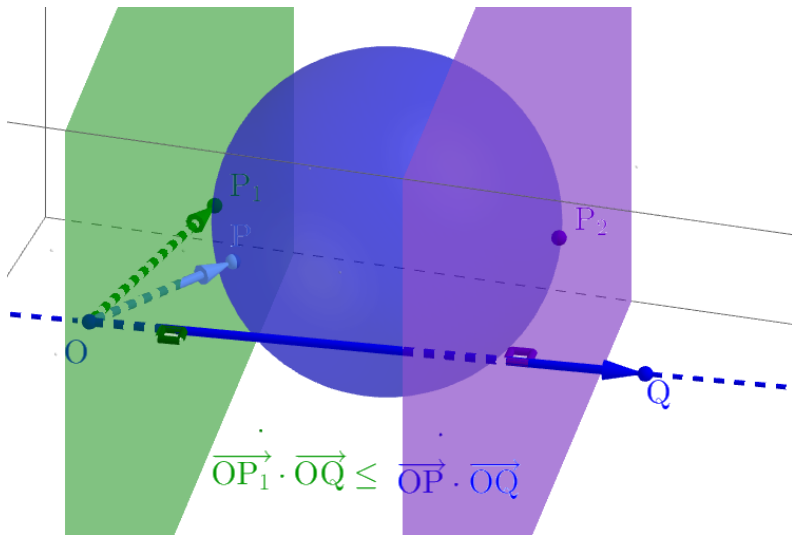
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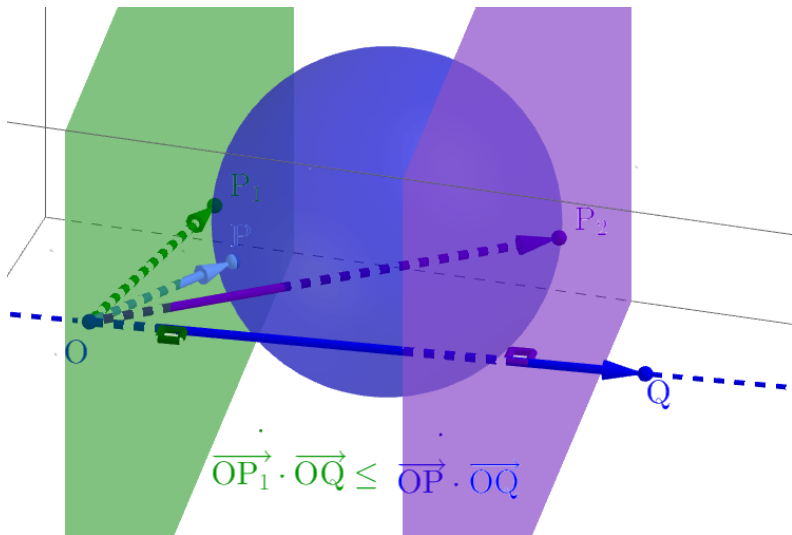
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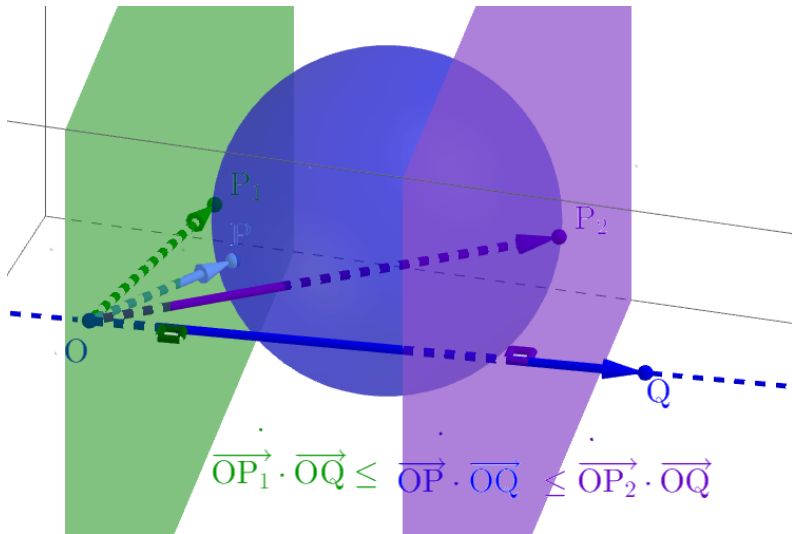
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Github:

<https://min7014.github.io/math20221101001.html>

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and you can see a picture moving.