원에 내접하는 사각형의 한 외각의 크기는 그 내대각의 크기와 같다.

(The size of an exterior angle of a cyclic quadrilateral is equal to the size of its inner opposite angle.)

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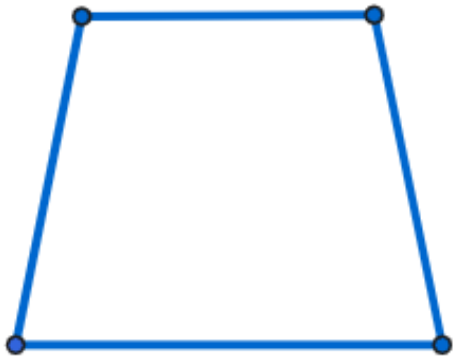

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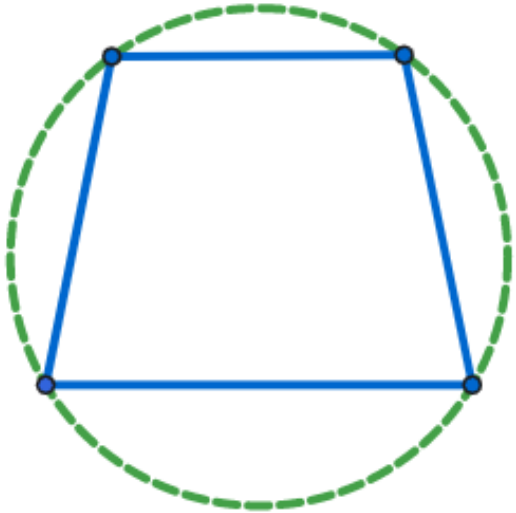

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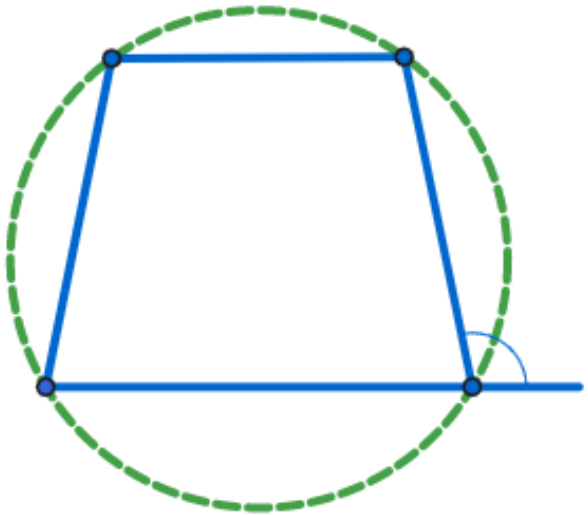

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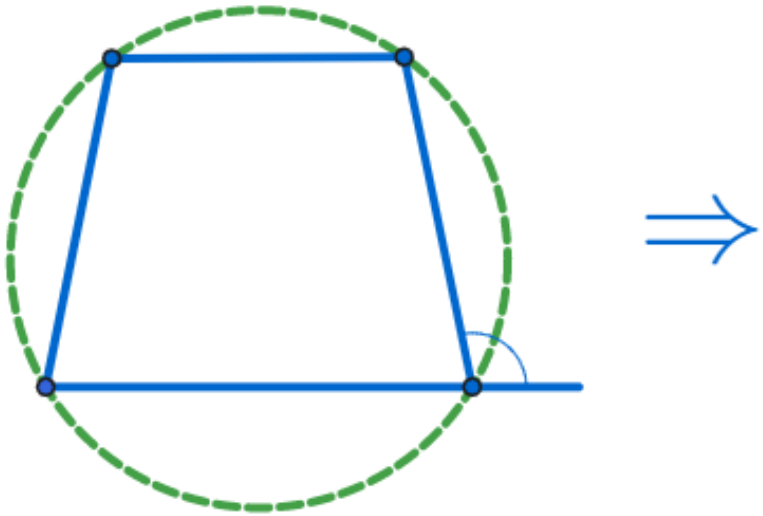

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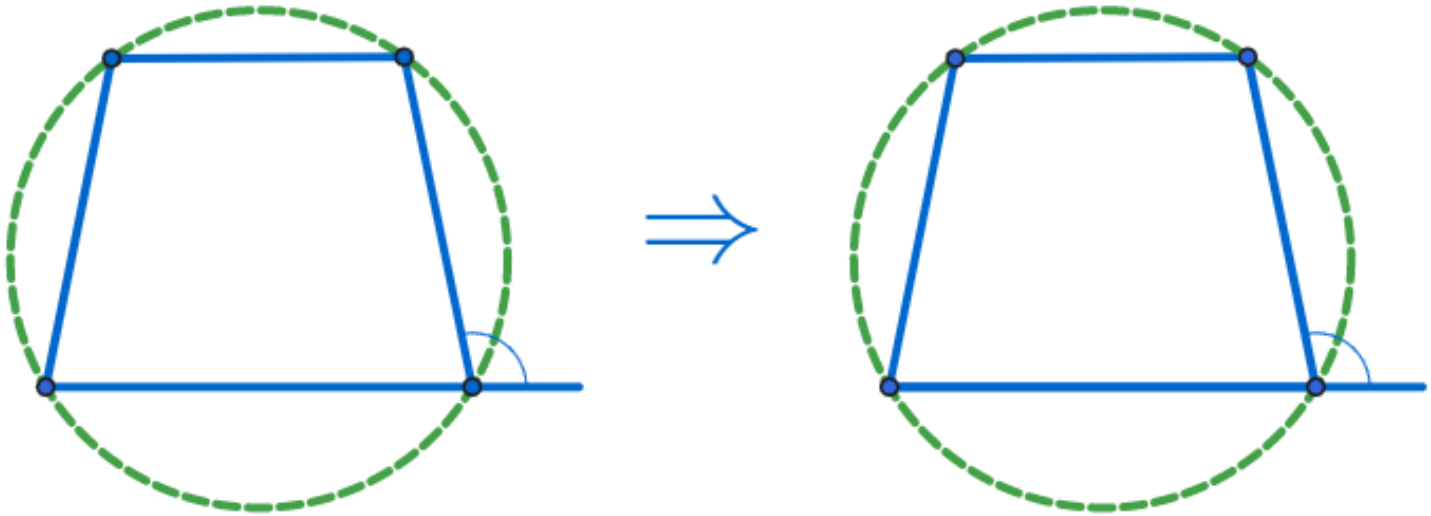

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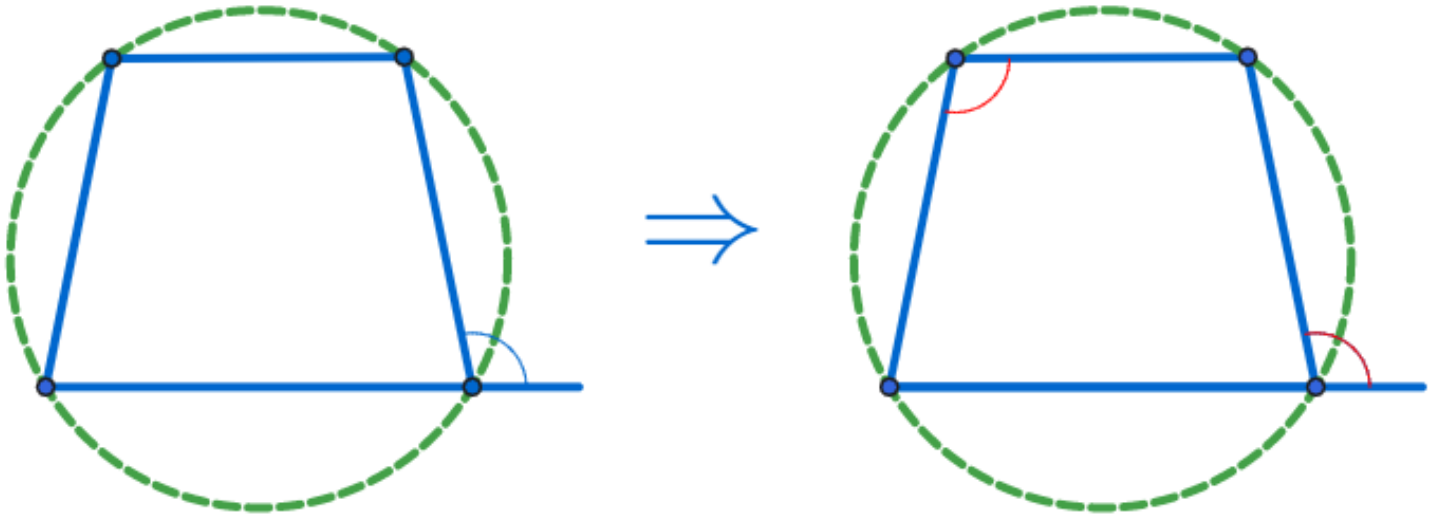

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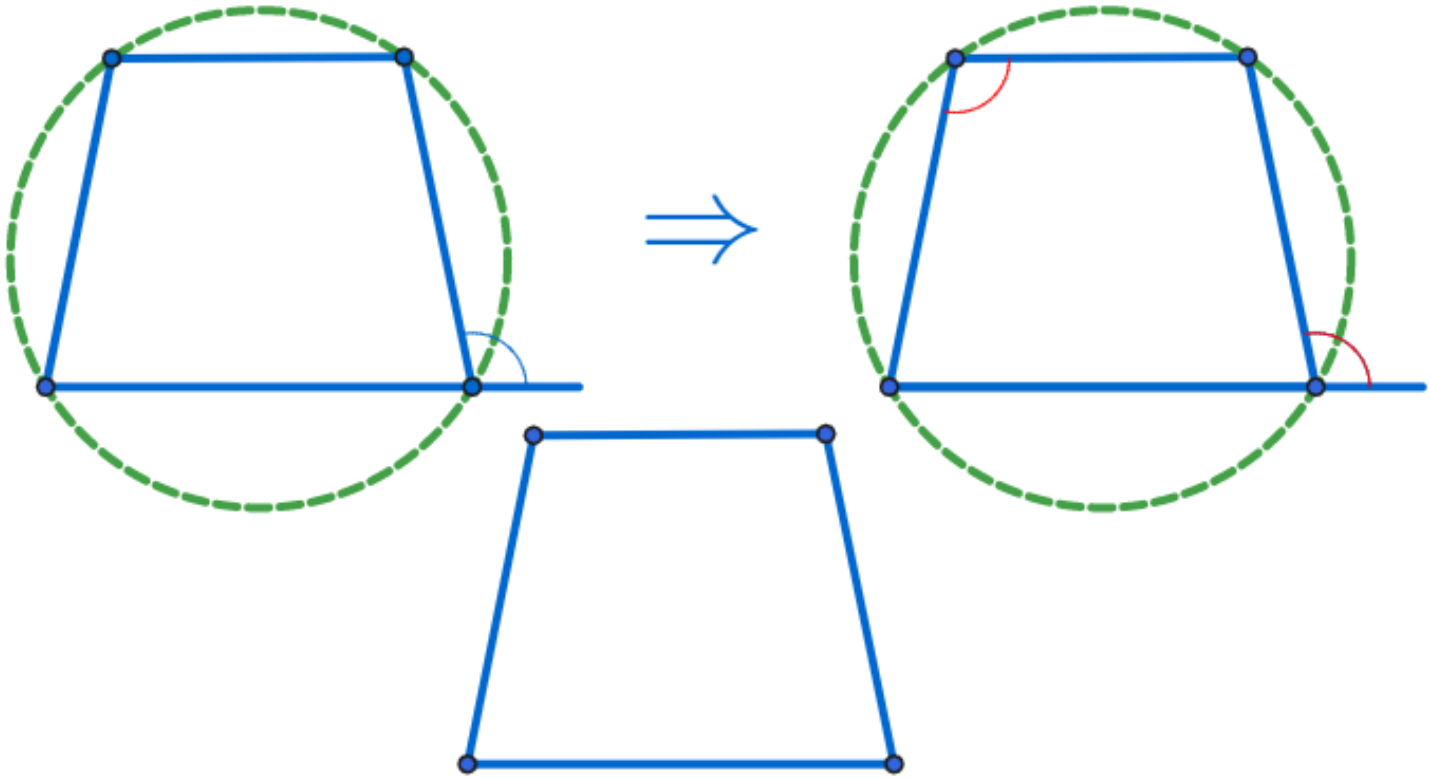

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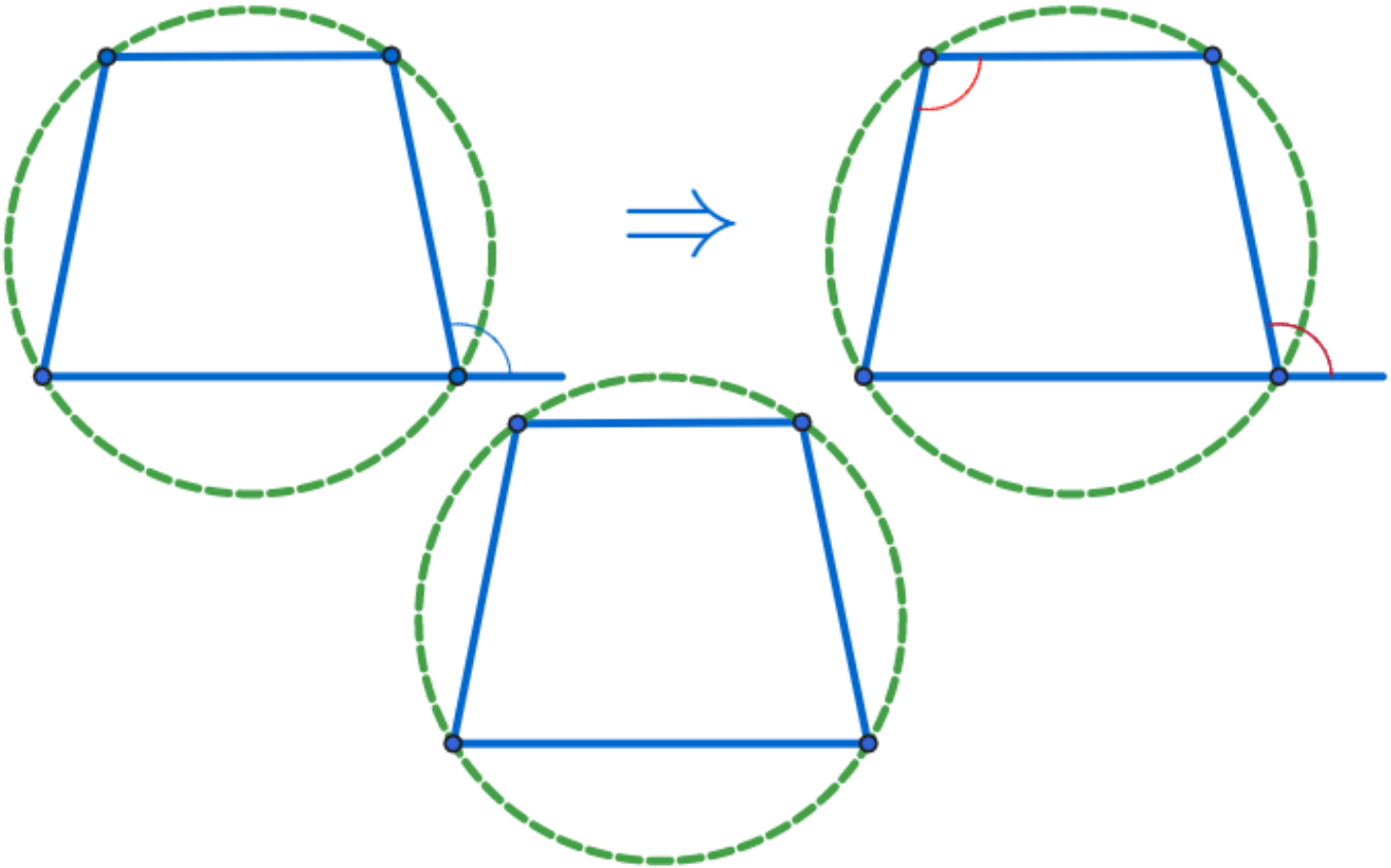

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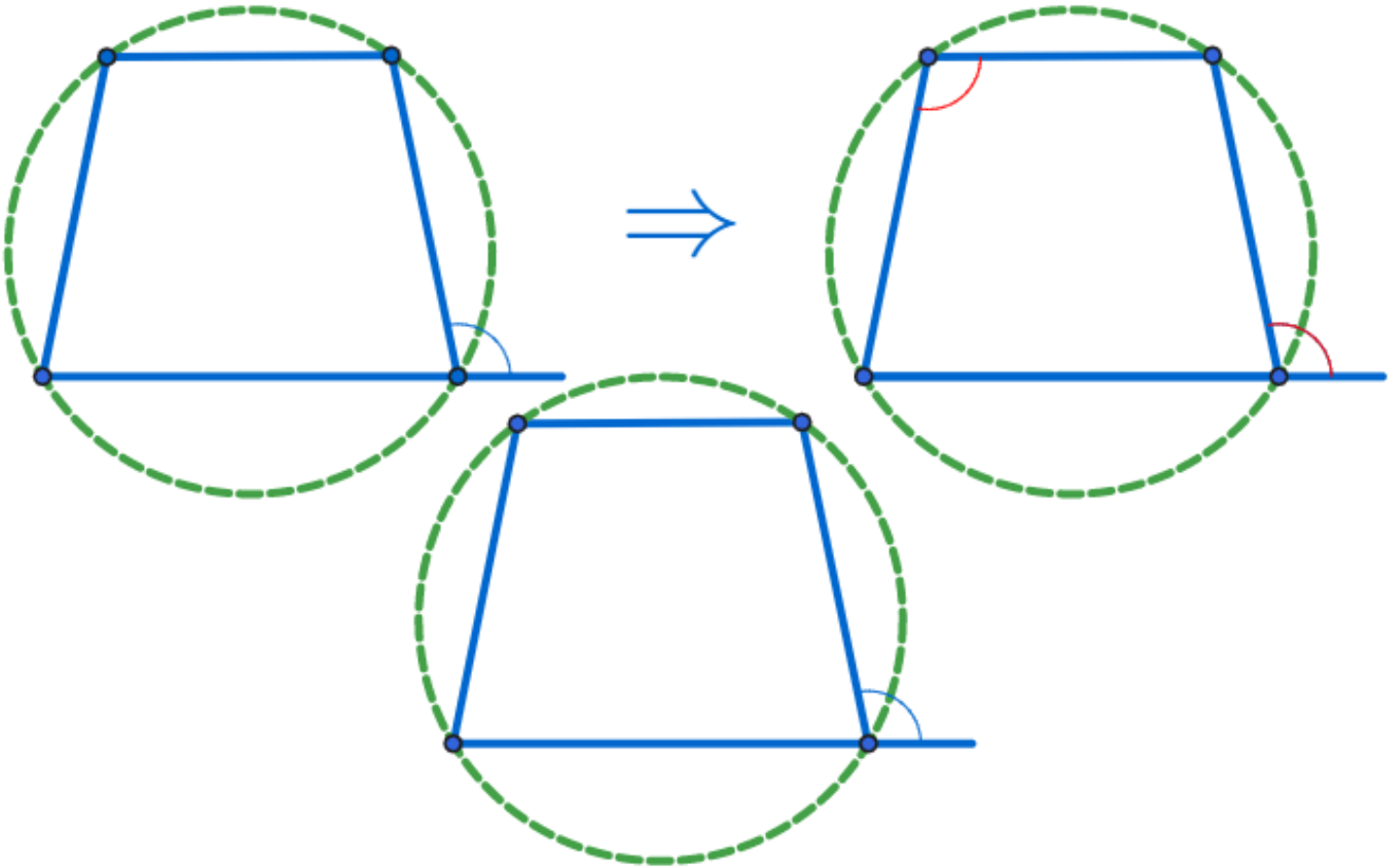

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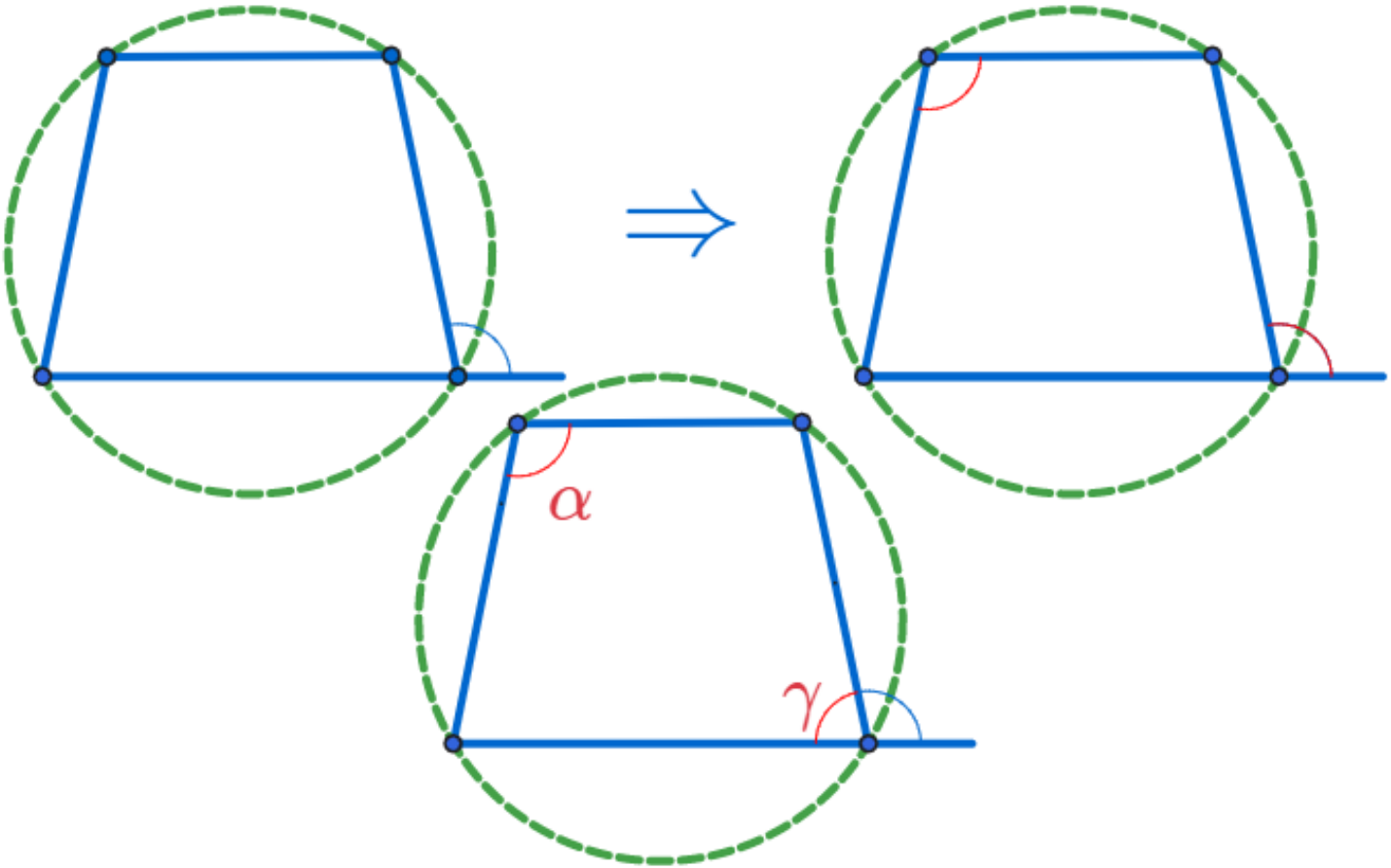

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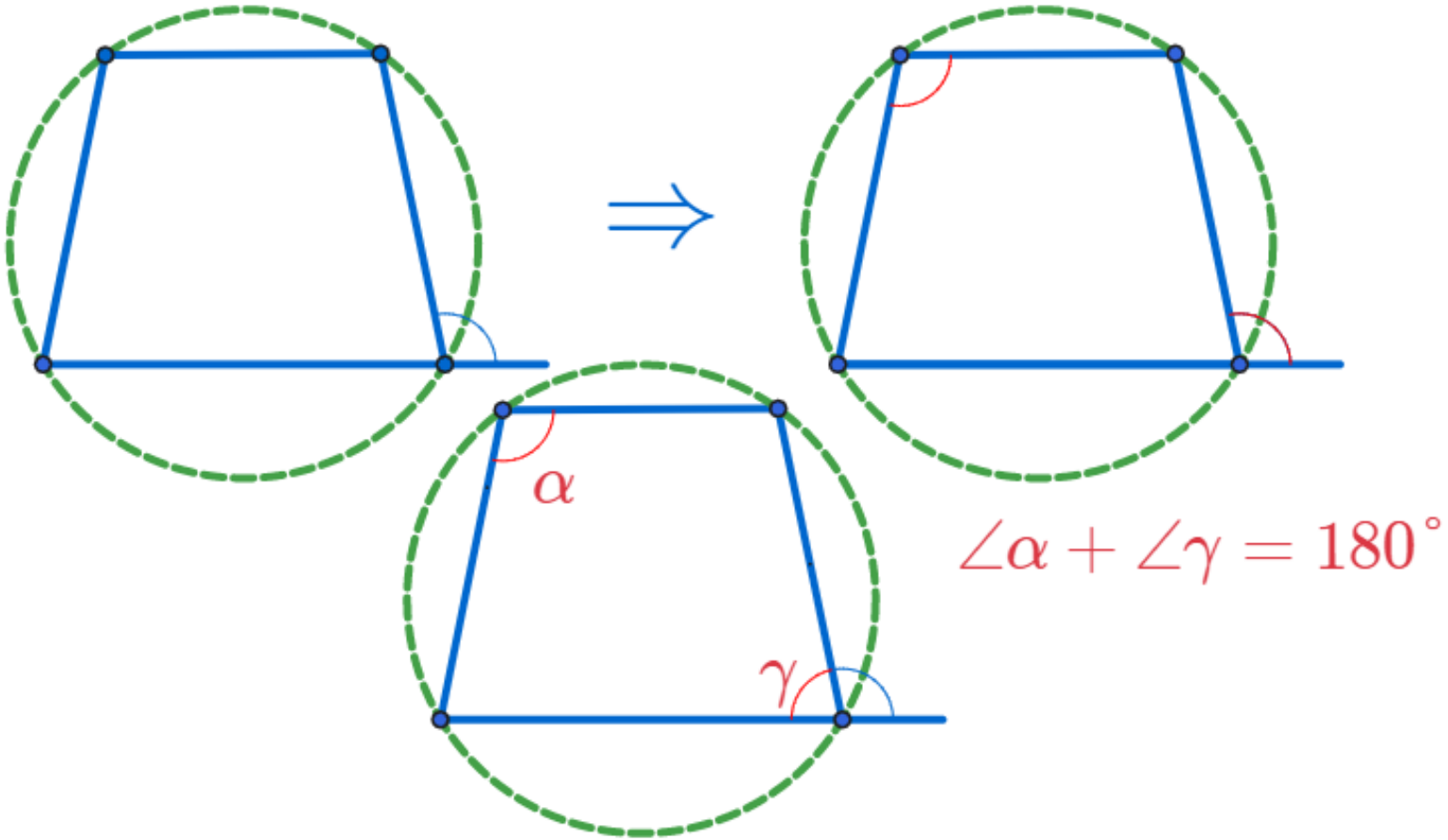

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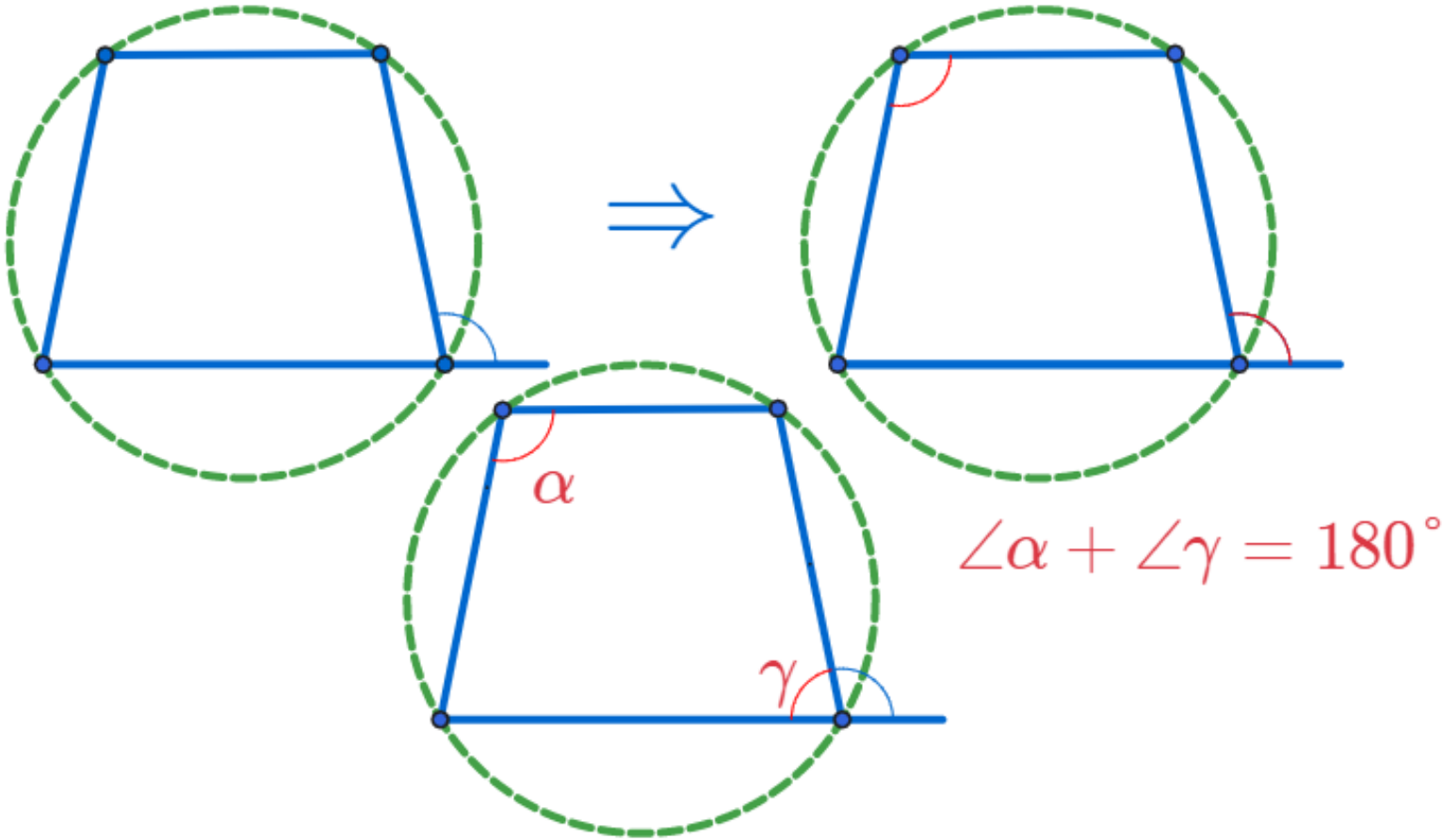

∵원에 내접하는 사각형에서 한 쌍의 대각의 크기의 합은 180도이다.
(Opposite angles of a cyclic quadrilateral add up to 180 degrees.)

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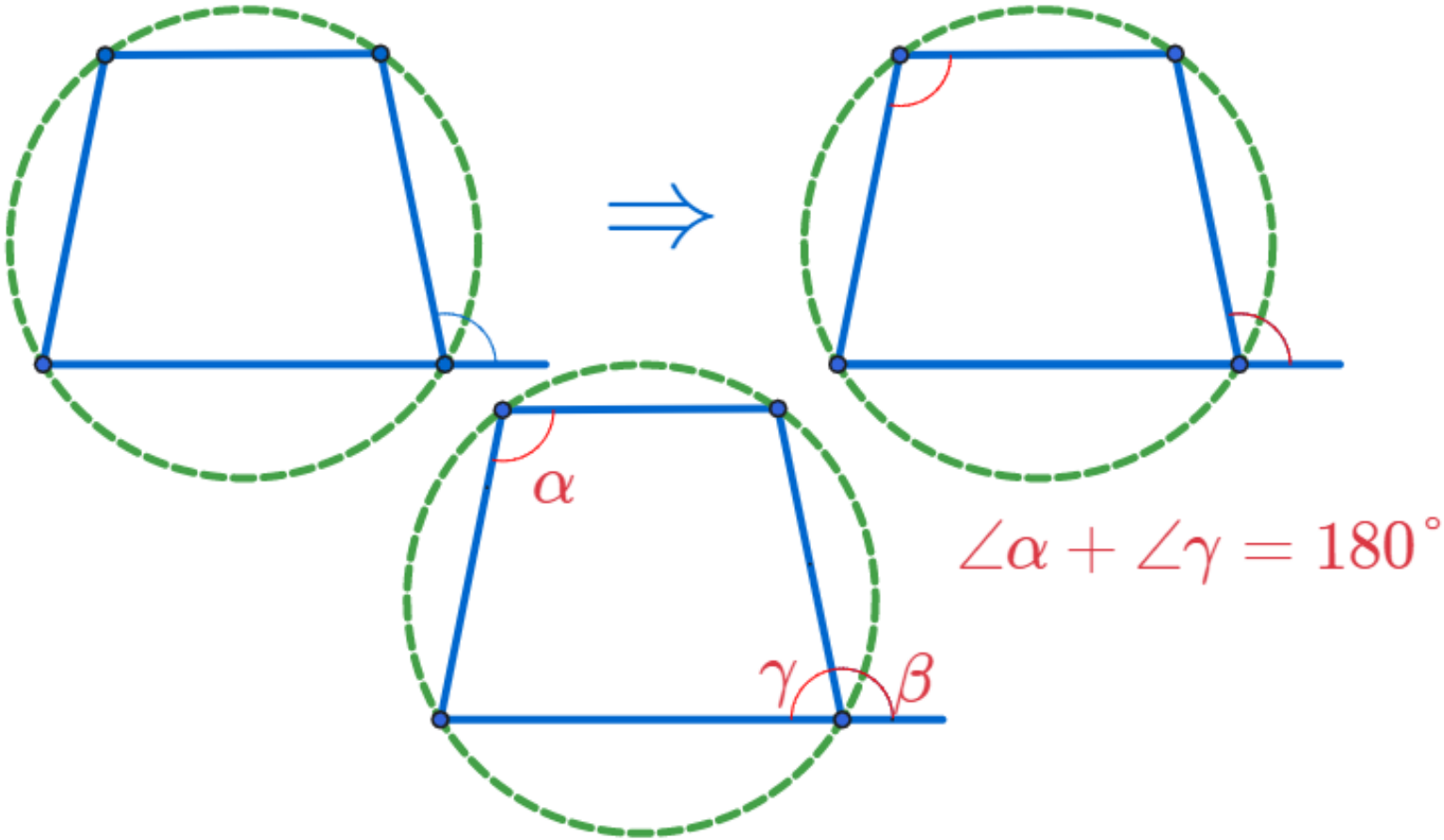

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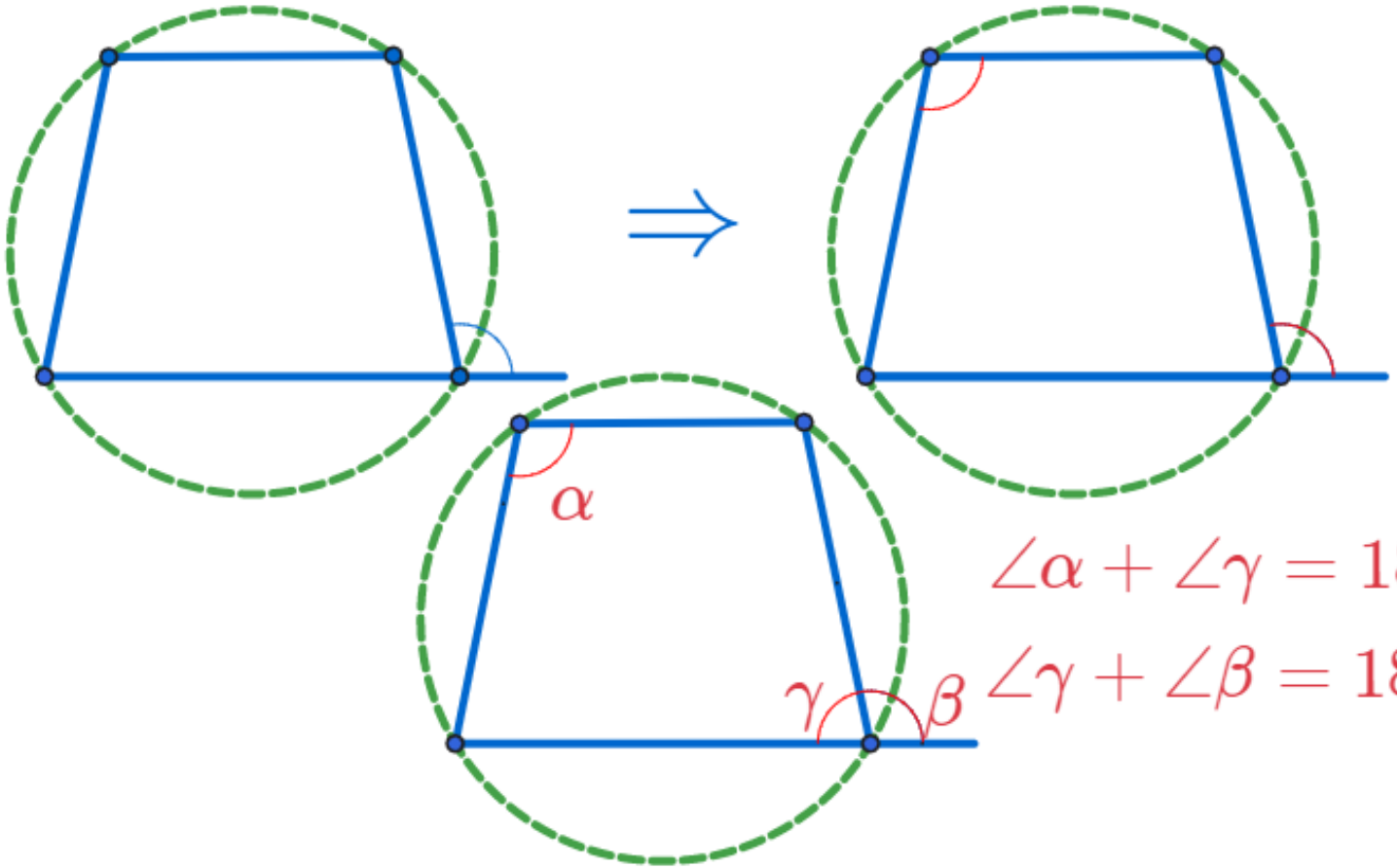

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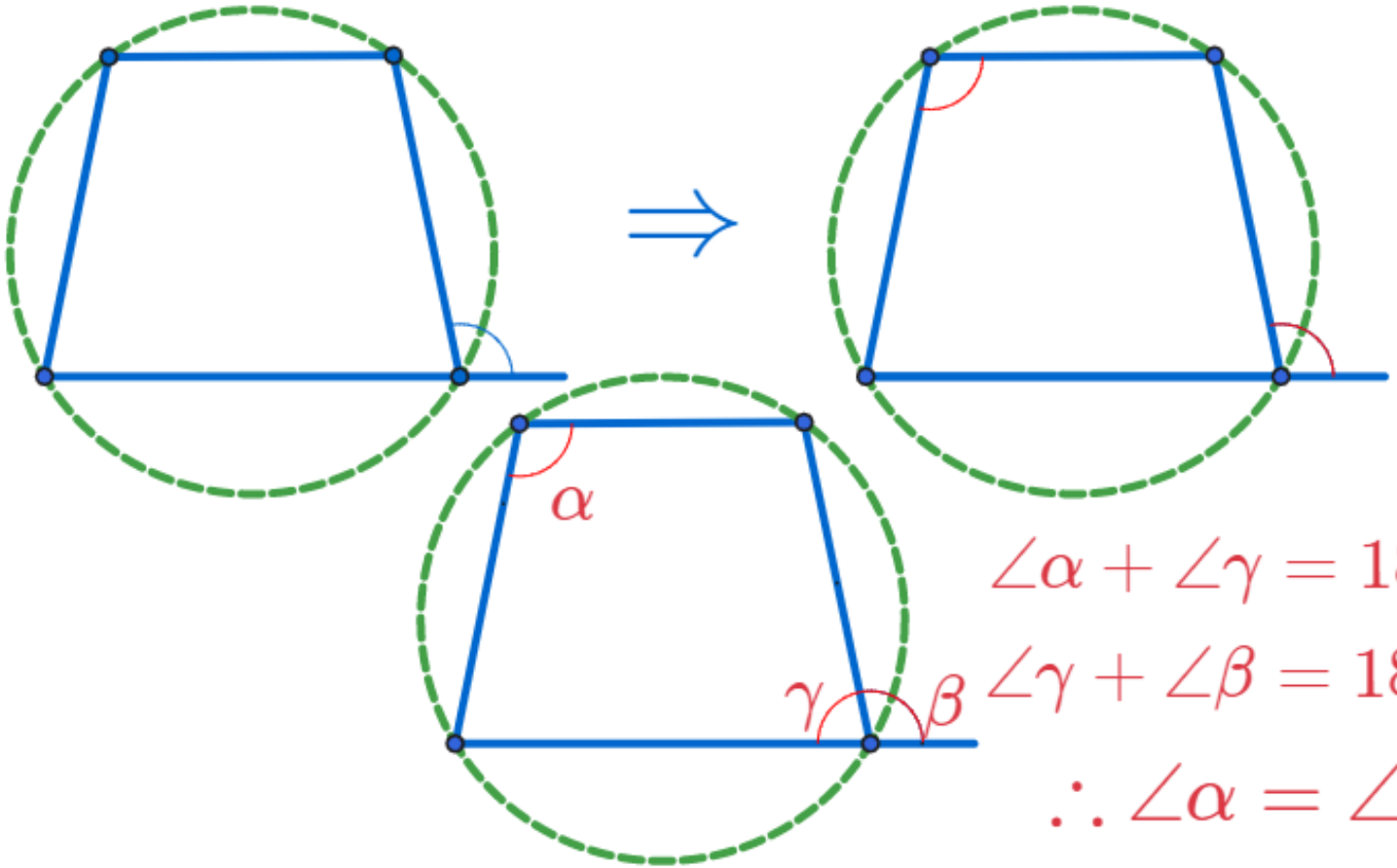

$$\angle\alpha + \angle\gamma = 180^\circ$$
$$\angle\gamma + \angle\beta = 180^\circ$$
$$\therefore \angle\alpha = \angle\beta$$

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(Opposite angles of a cyclic quadrilateral add up to 180 degrees.)

Github:
https://min7014.github.io/math20200212001.html

Click or paste URL into the URL search bar, and you can see a picture moving.