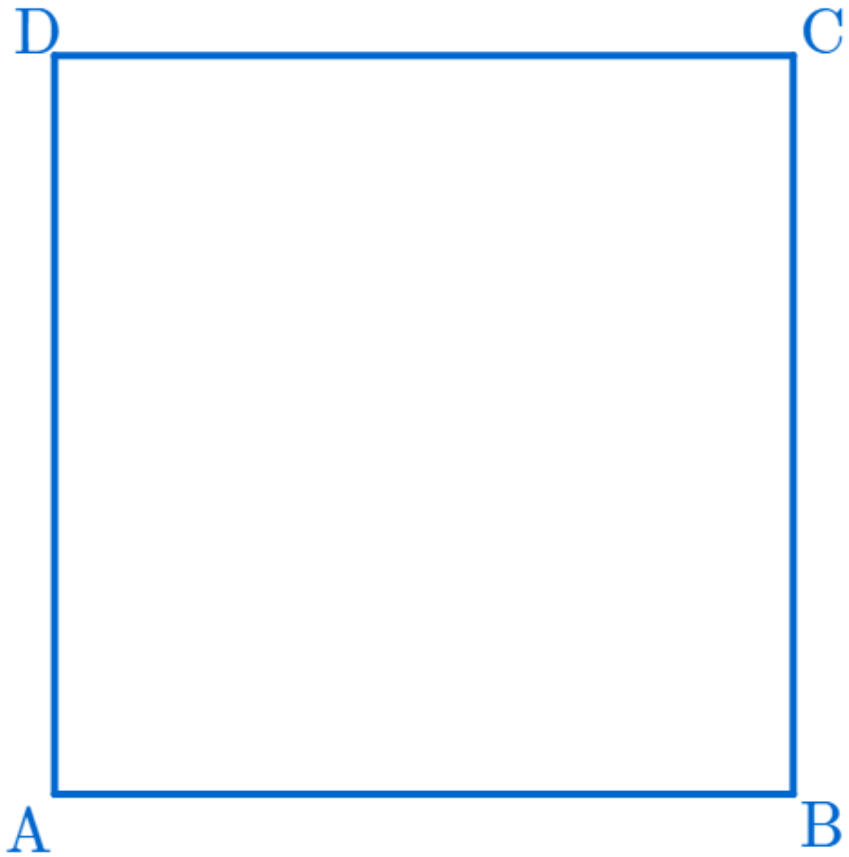
직각이등변삼각형
(Isosceles Right Triangle)

Isosceles Right Triangle

Isosceles Right Triangle



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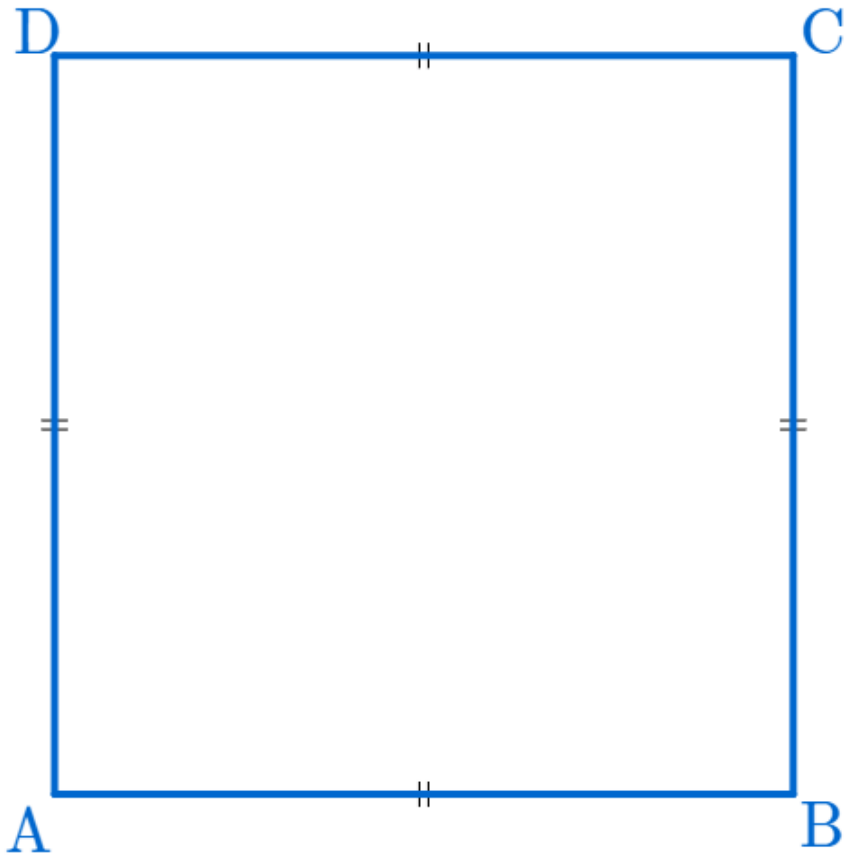

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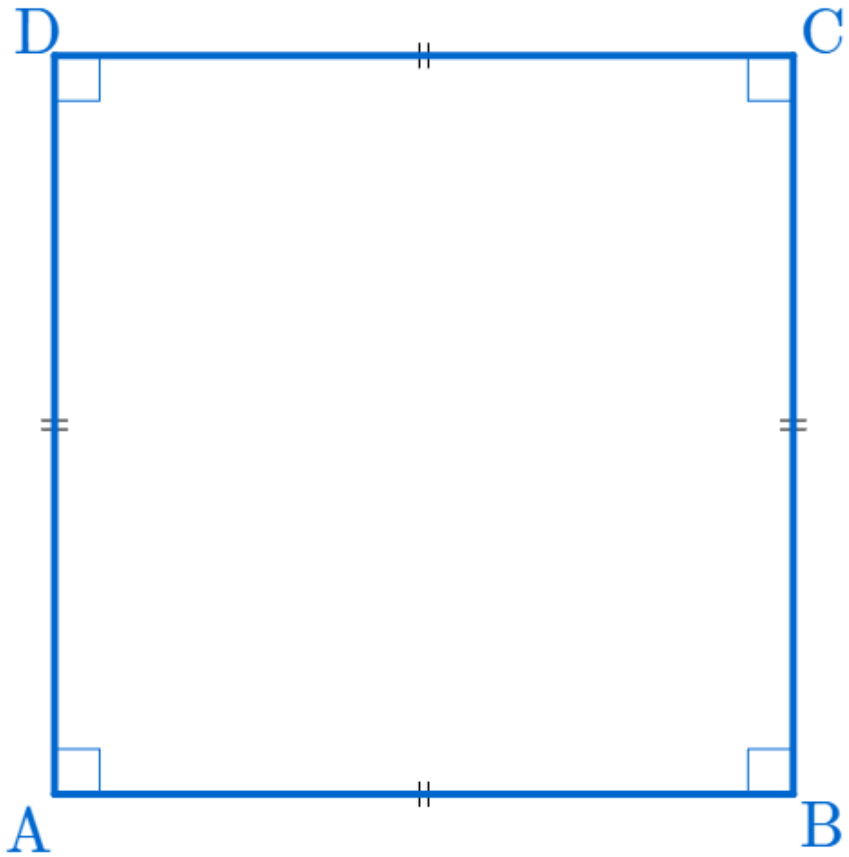

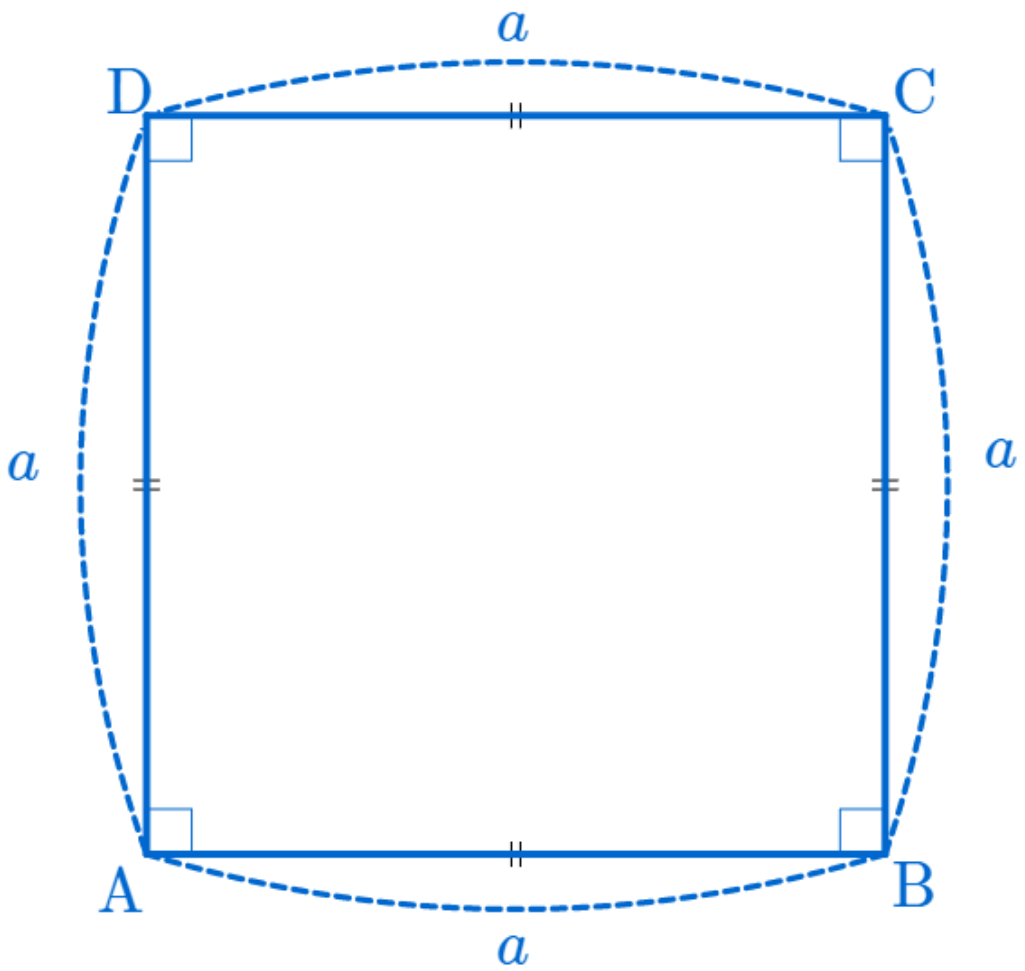
a
D
C
a
a
A
B
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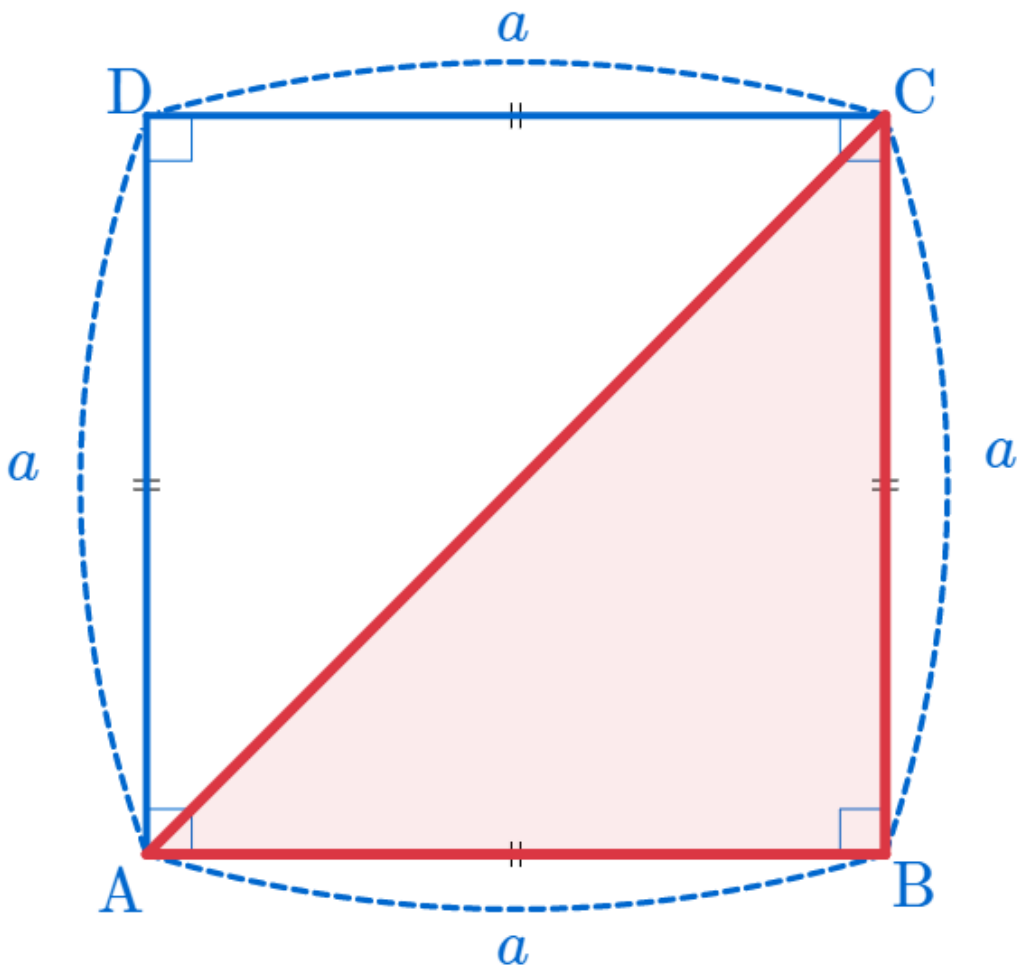

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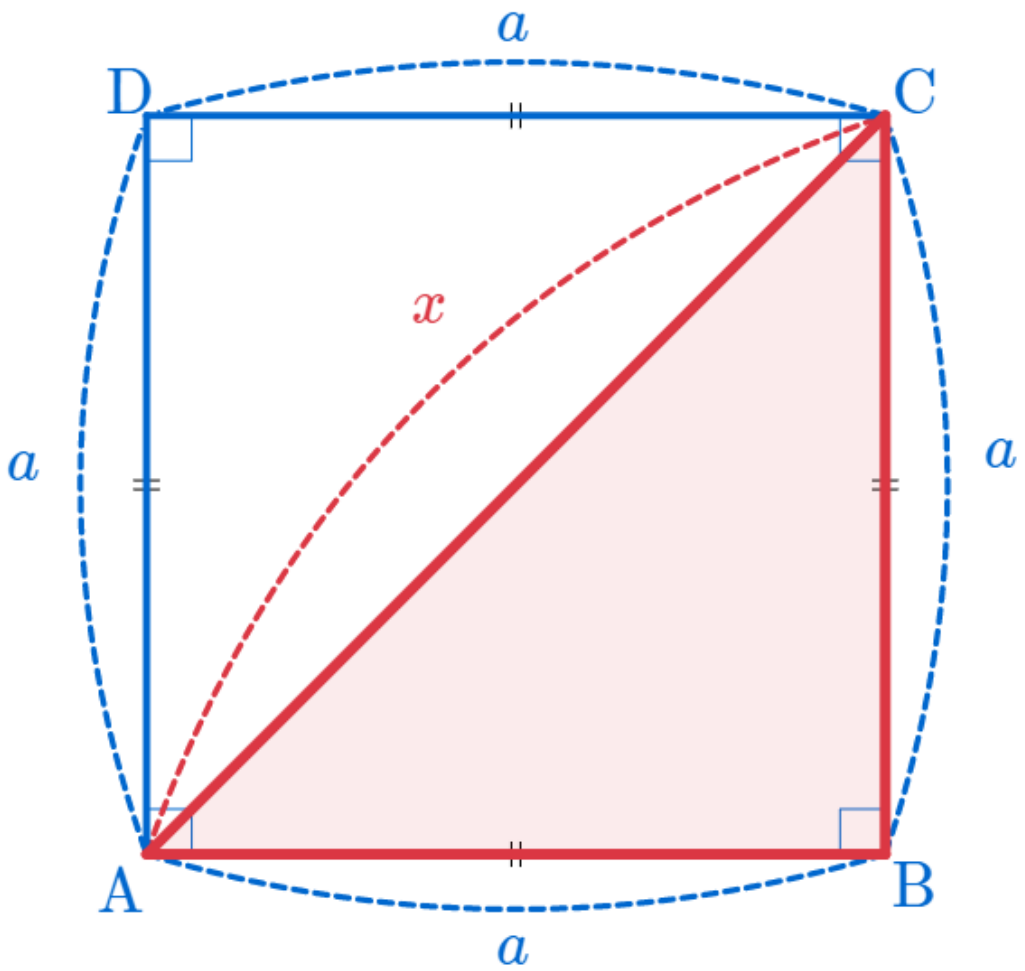

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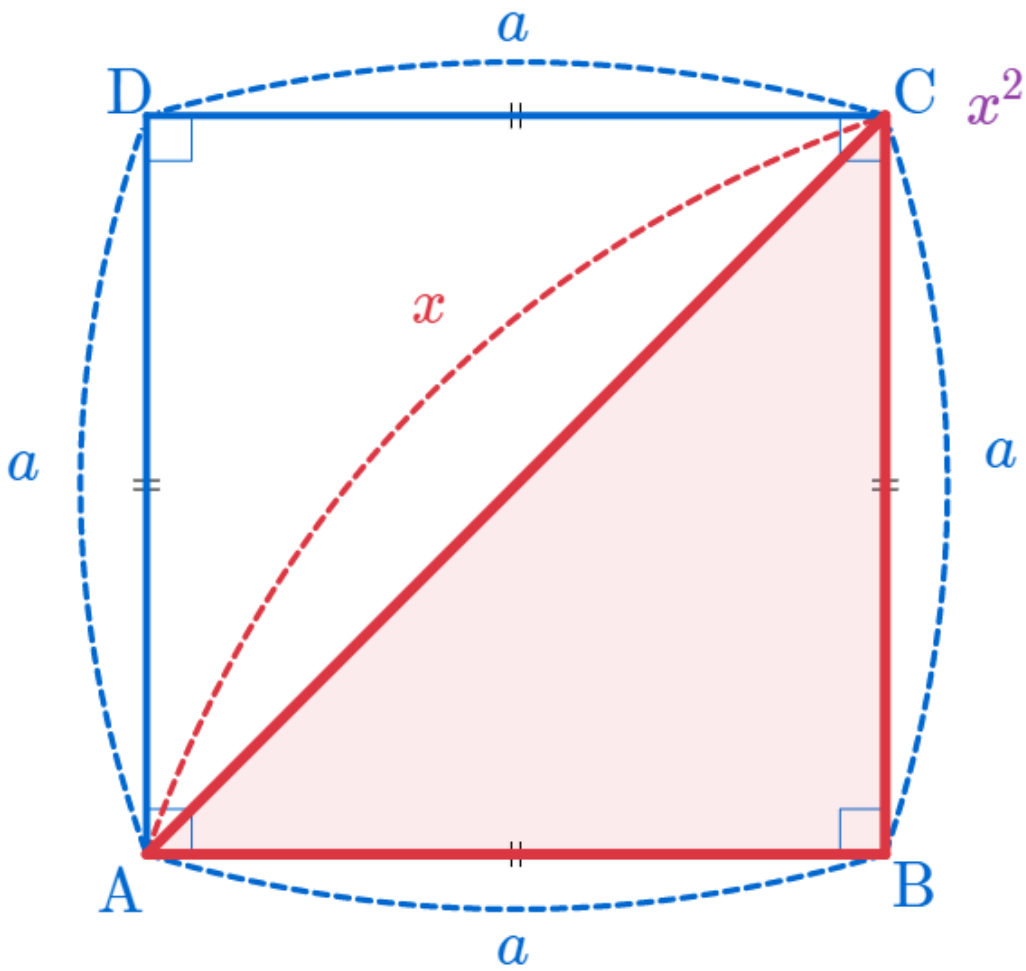
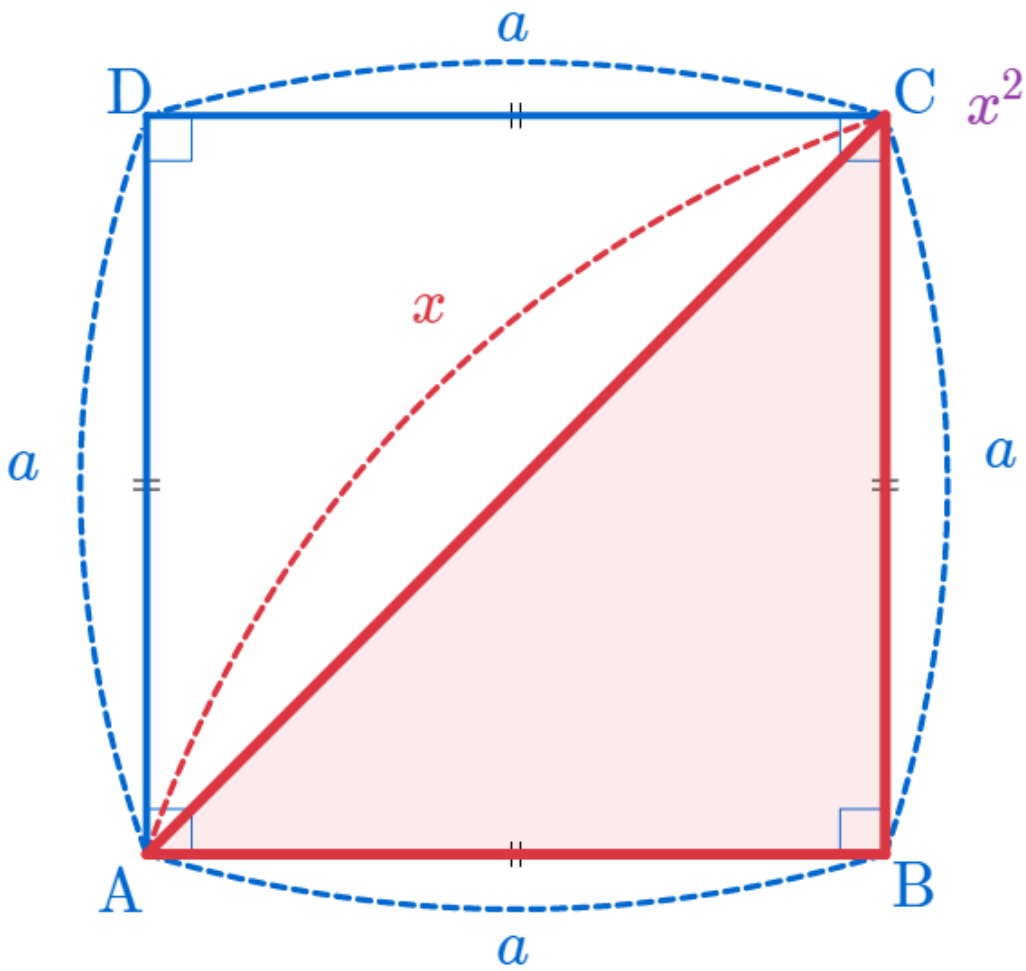


$$x^2 = a^2 + a^2$$



$$x^2 = a^2 + a^2 = 2a^2$$

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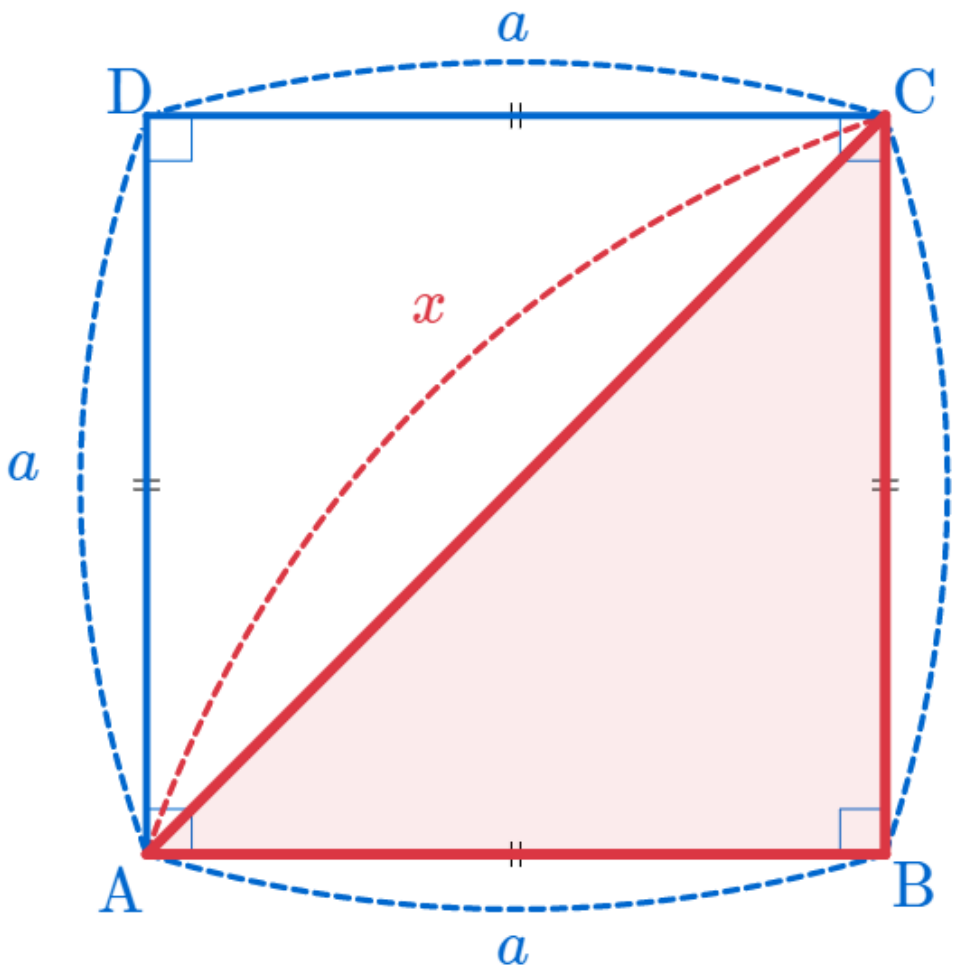
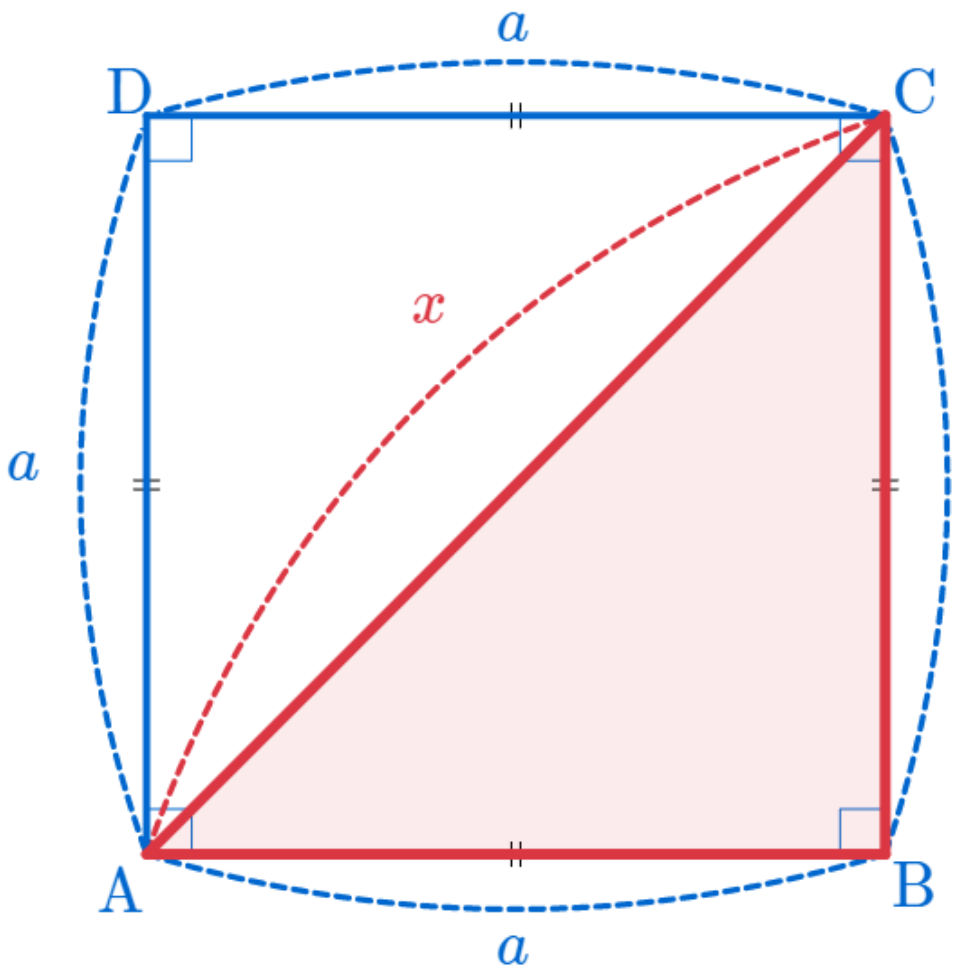


$$x^2 = a^2 + a^2 = 2a^2$$

$$x = \pm\sqrt{2a^2}$$



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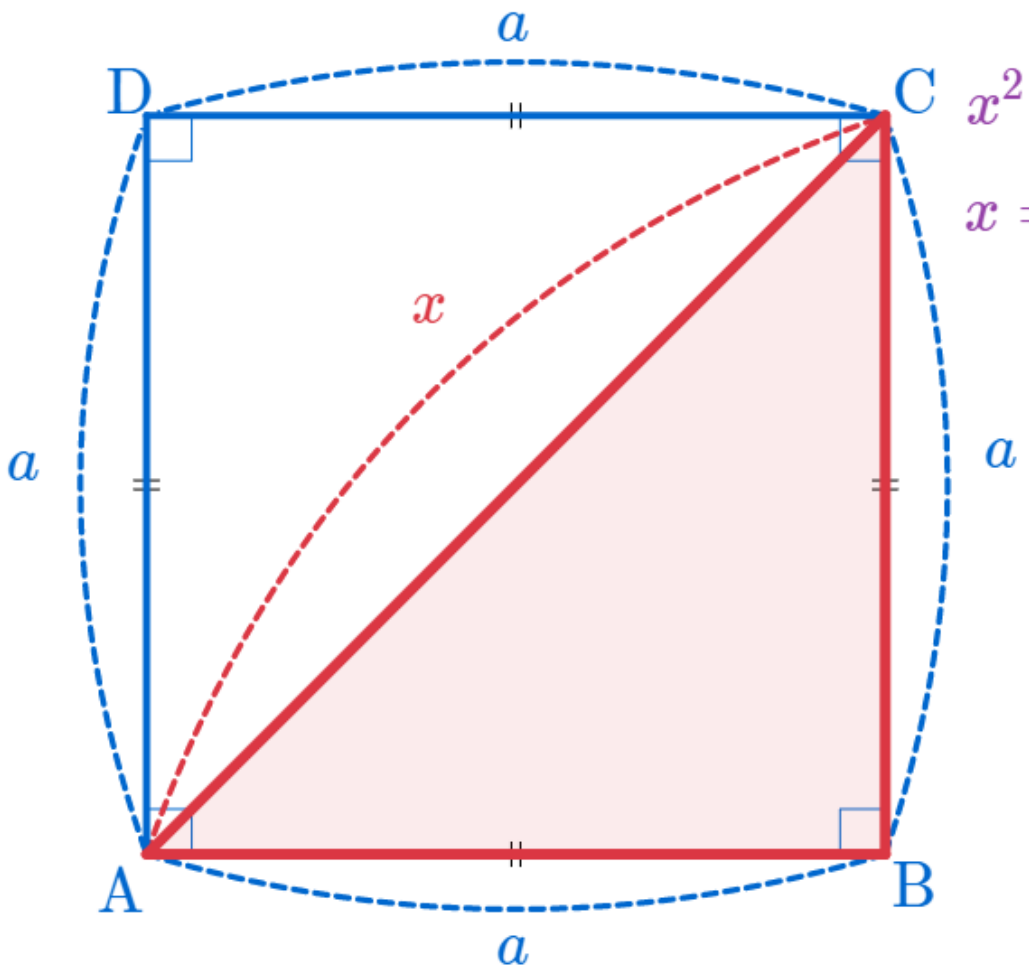

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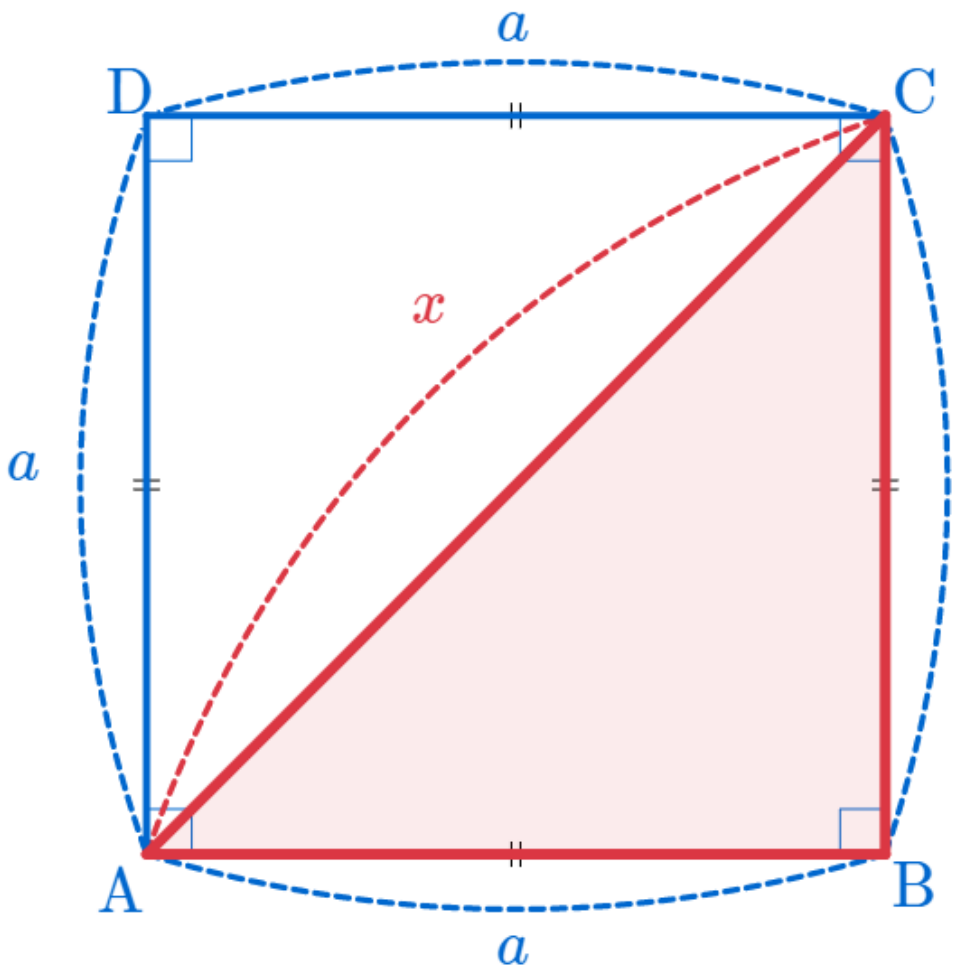

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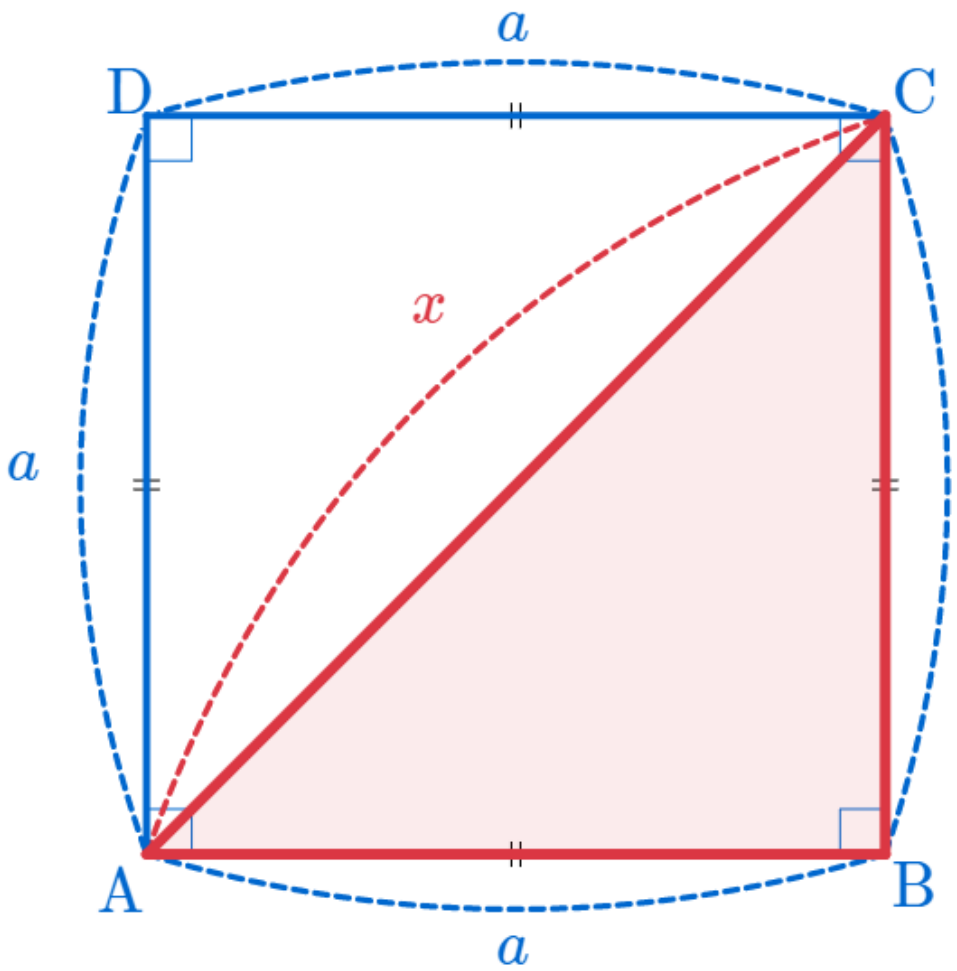
$$= \pm\sqrt{2}a \ (\because \ a > 0\,)$$



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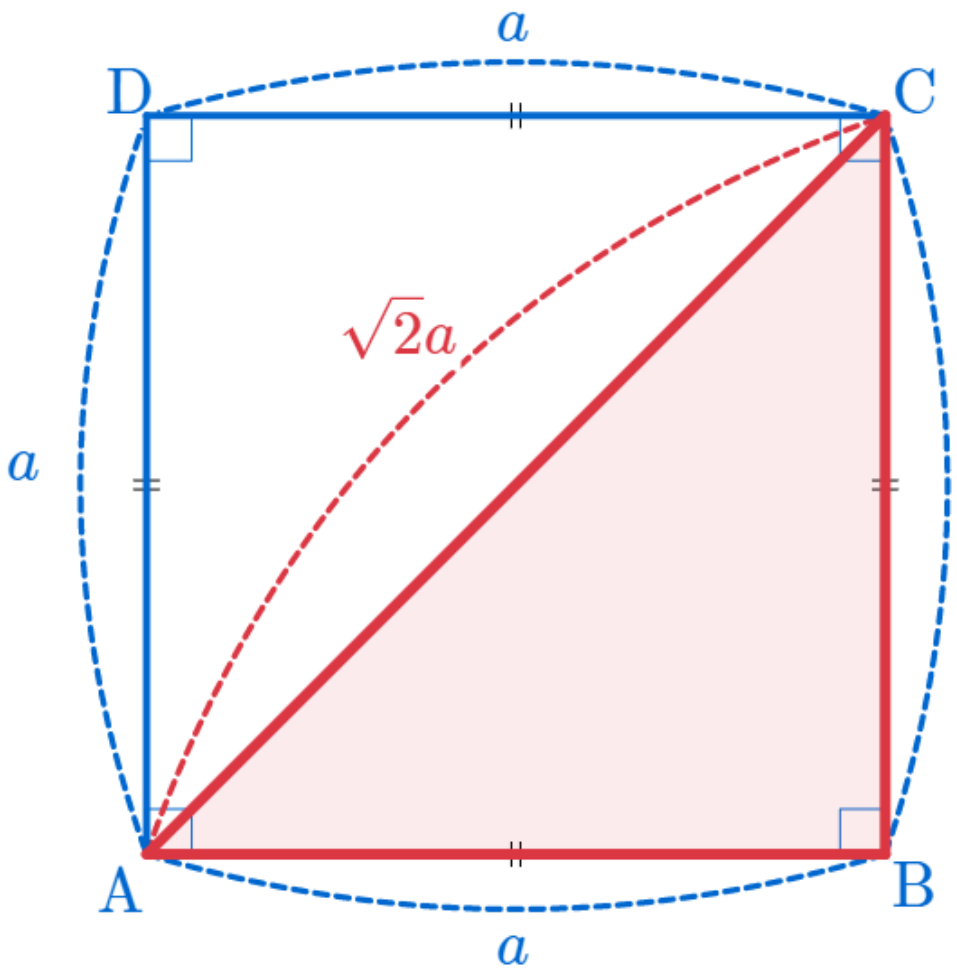

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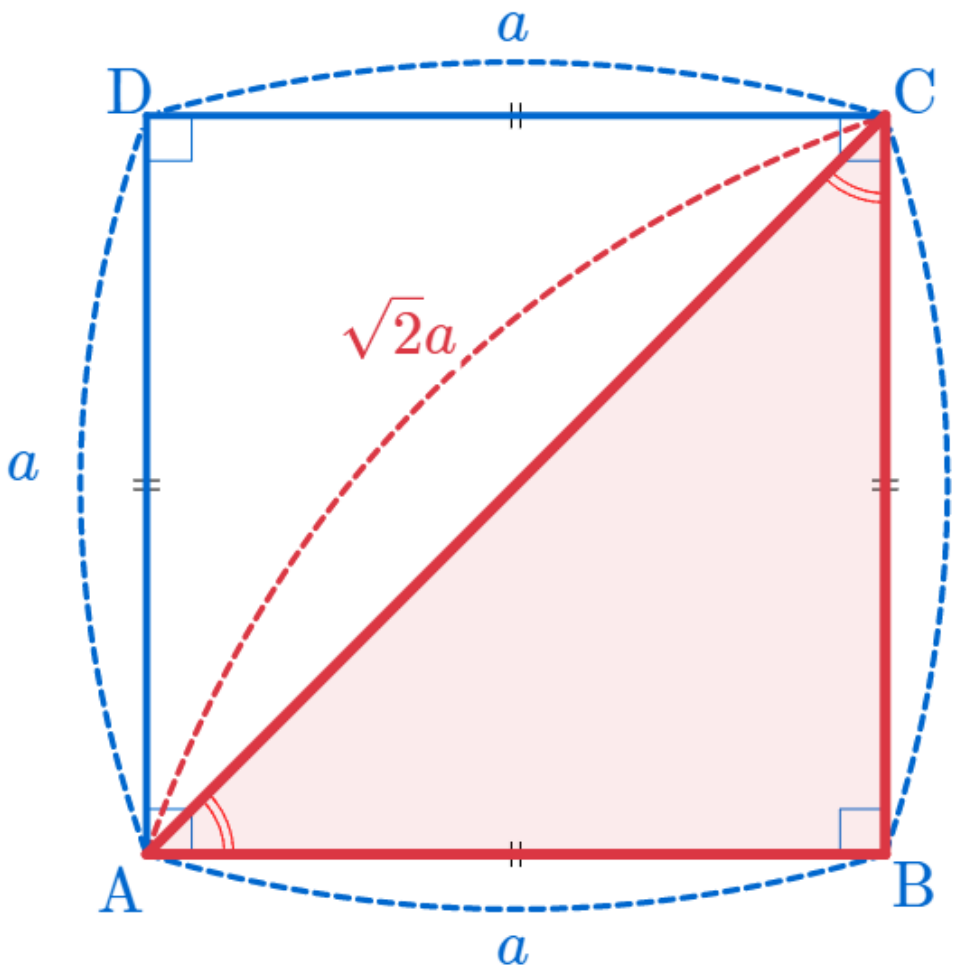

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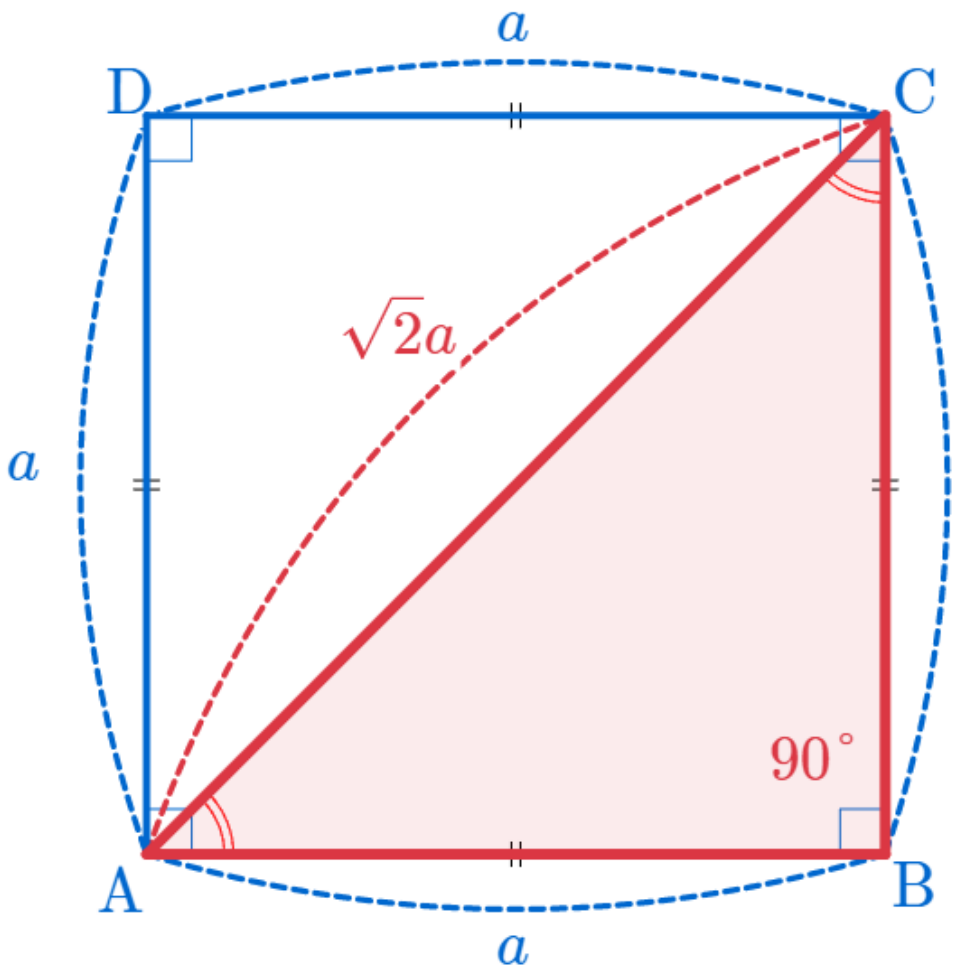

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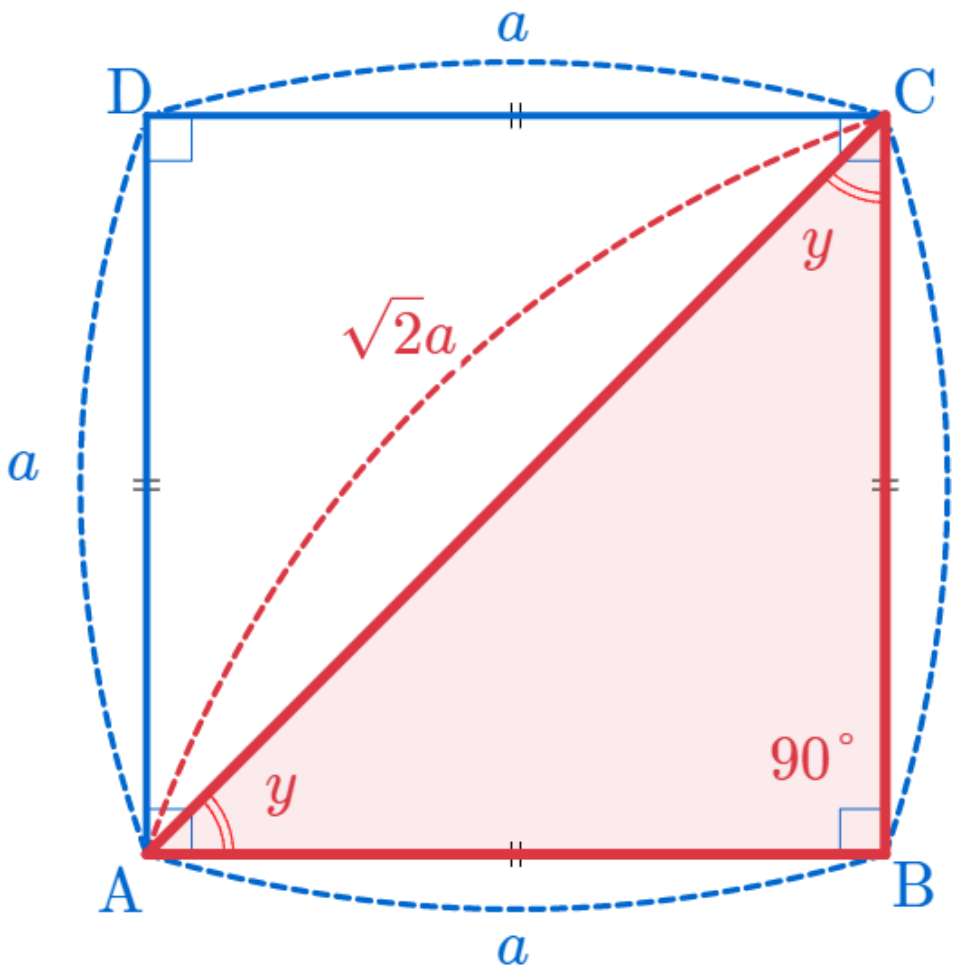

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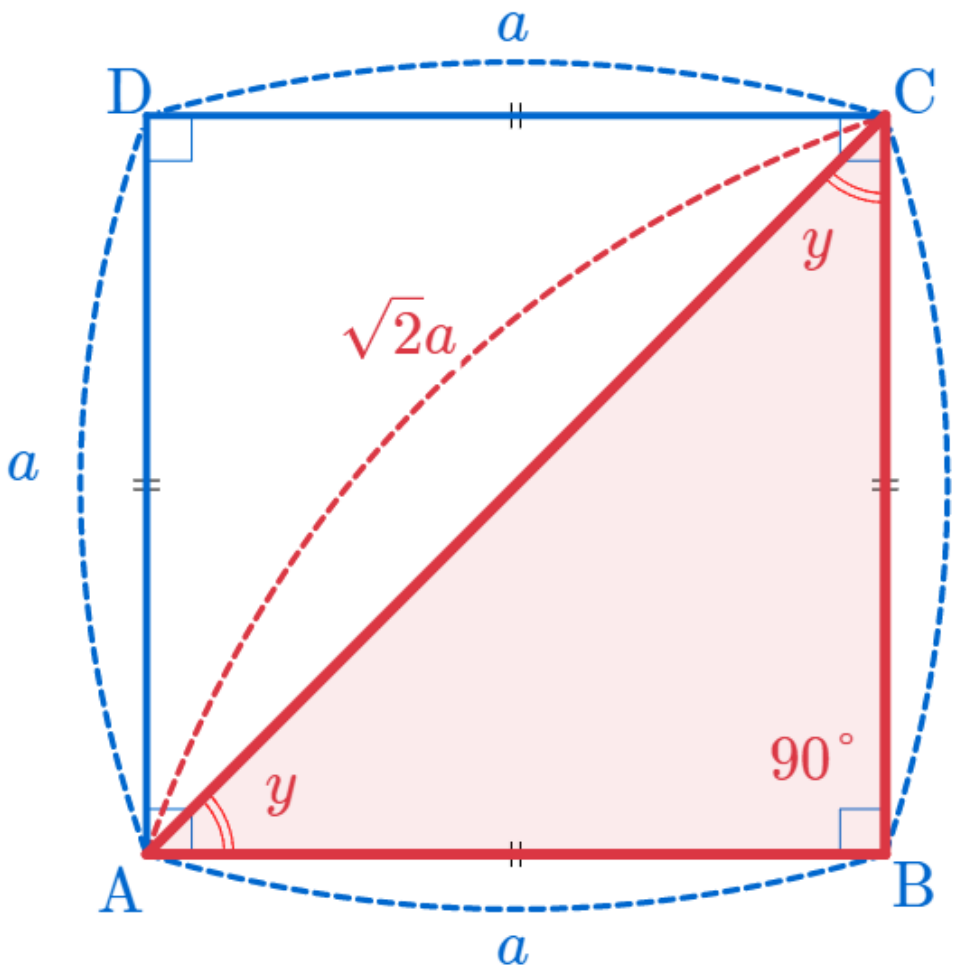

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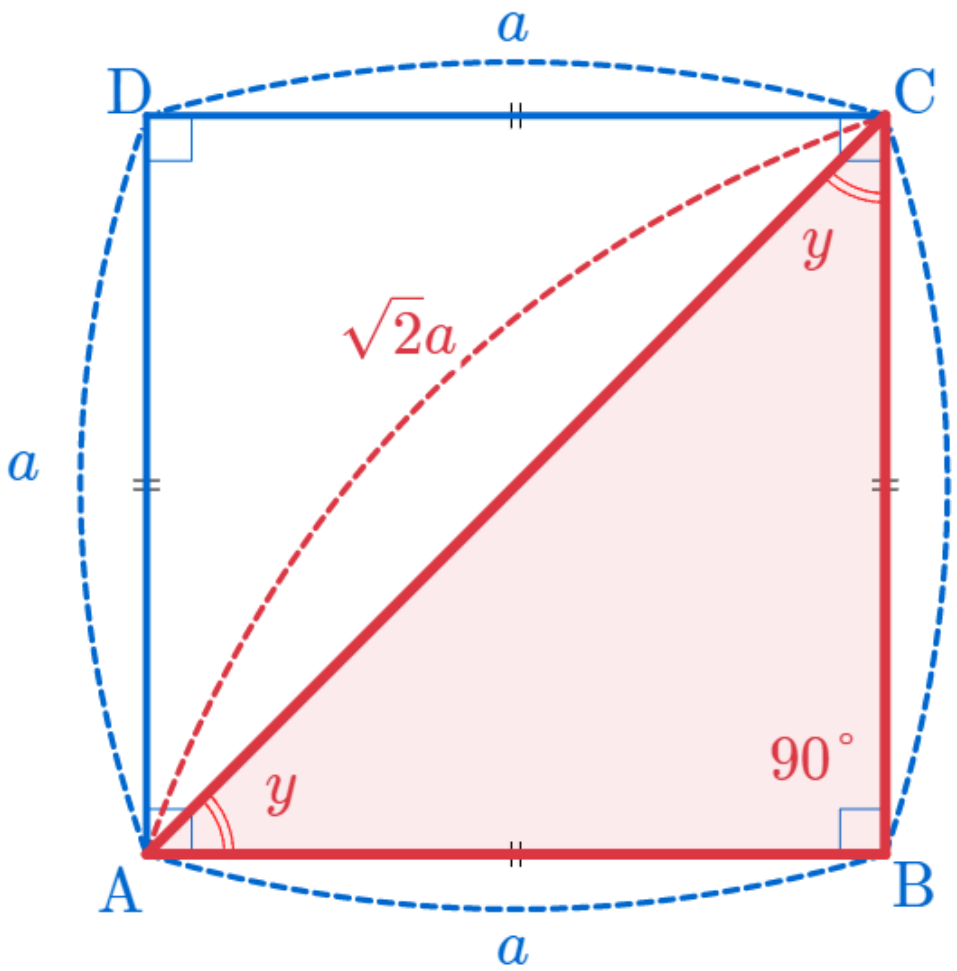
$$y + y + 90^\circ = 180^\circ$$



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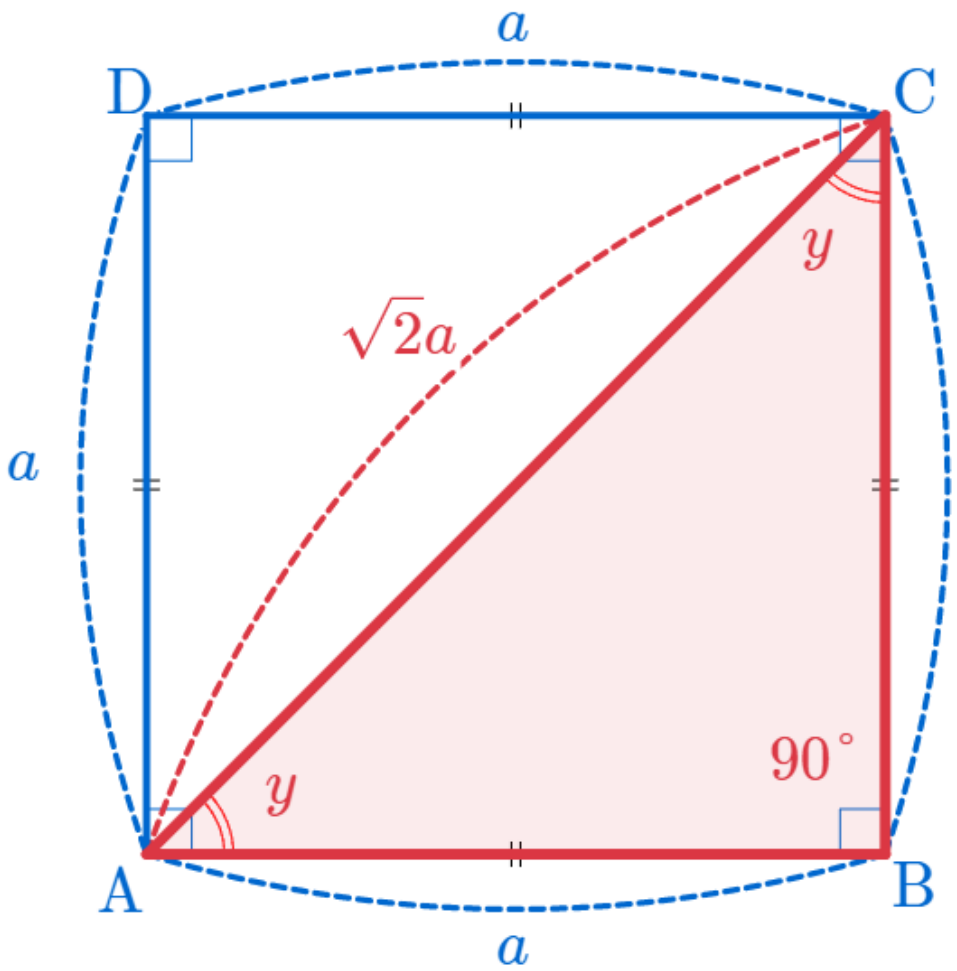

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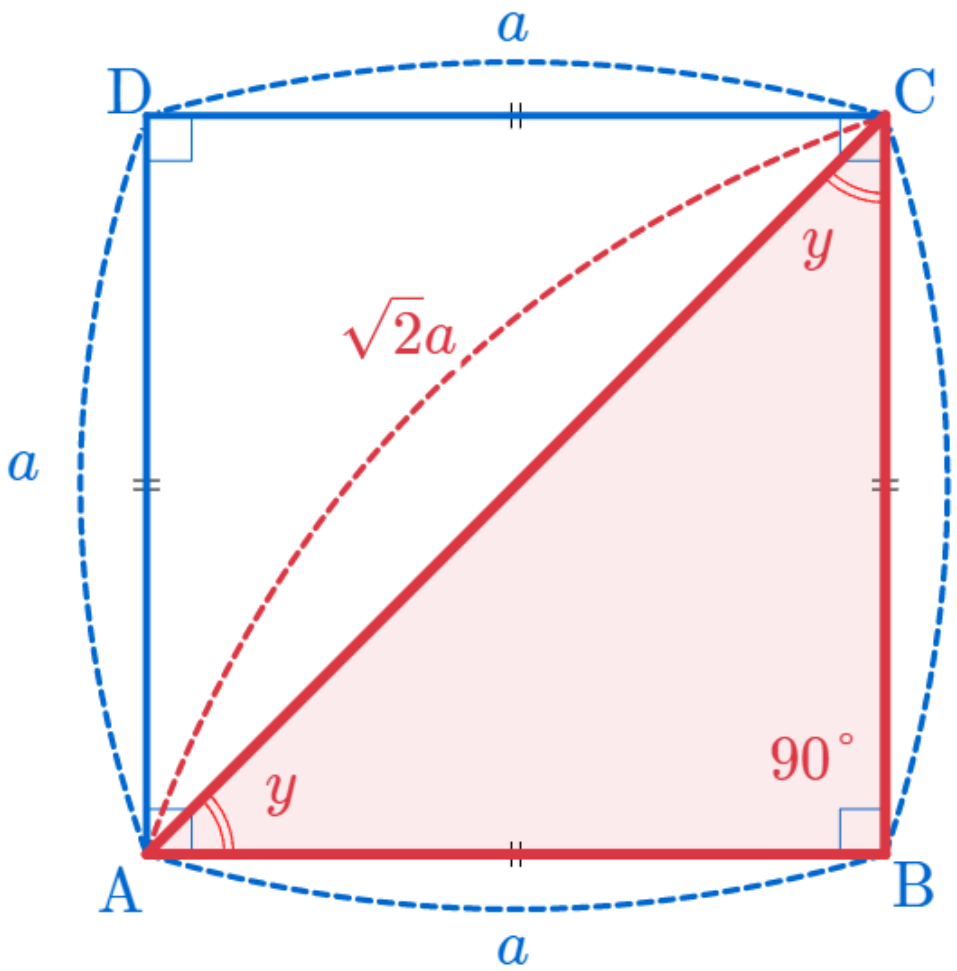
$$2y = 180^\circ - 90^\circ$$



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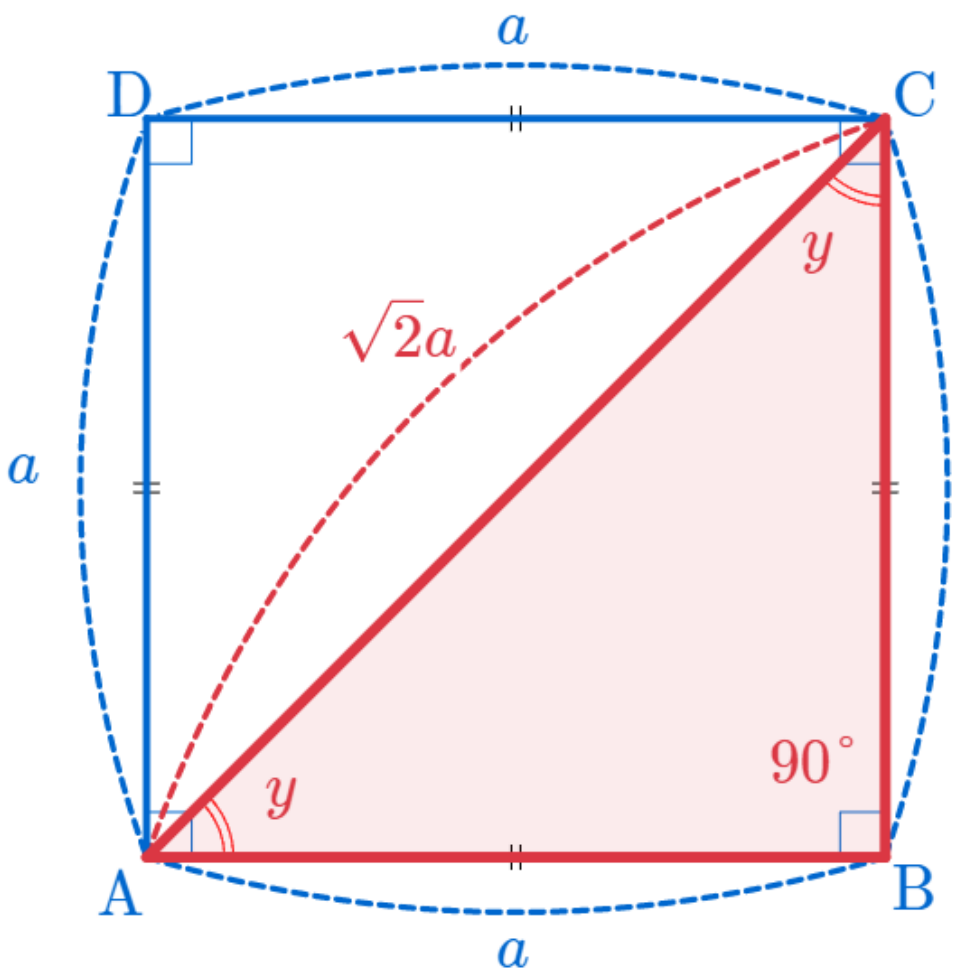

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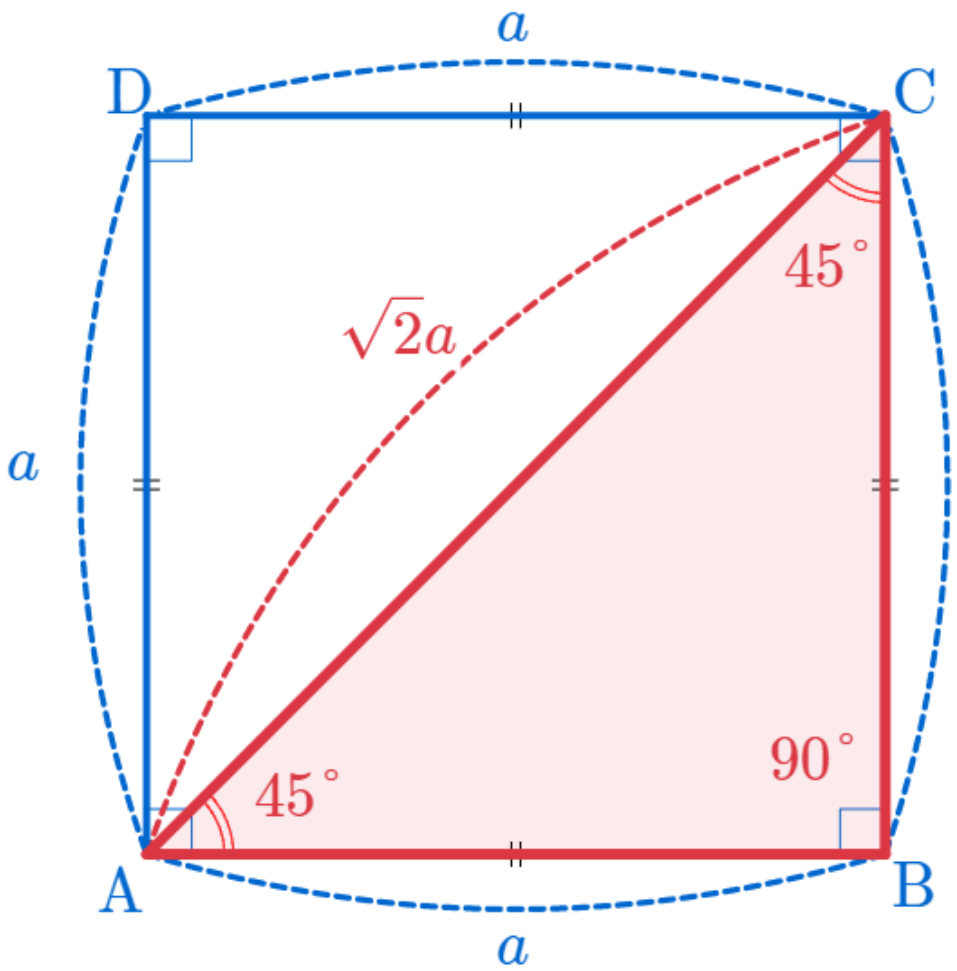
$$2y = 180^\circ - 90^\circ$$

$$2y = 90^\circ$$

$$\therefore\ y = 45^\circ$$



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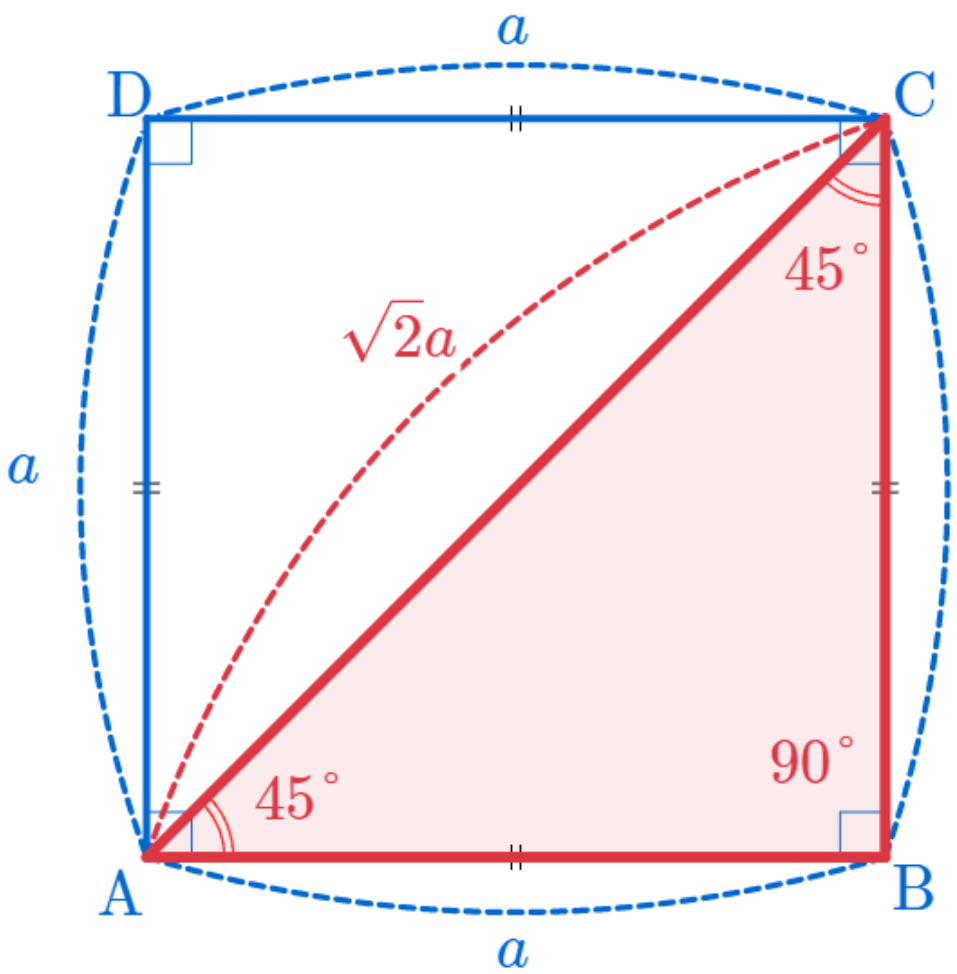

$$\therefore \sqrt{2}a \ : \ a \ : \ a$$

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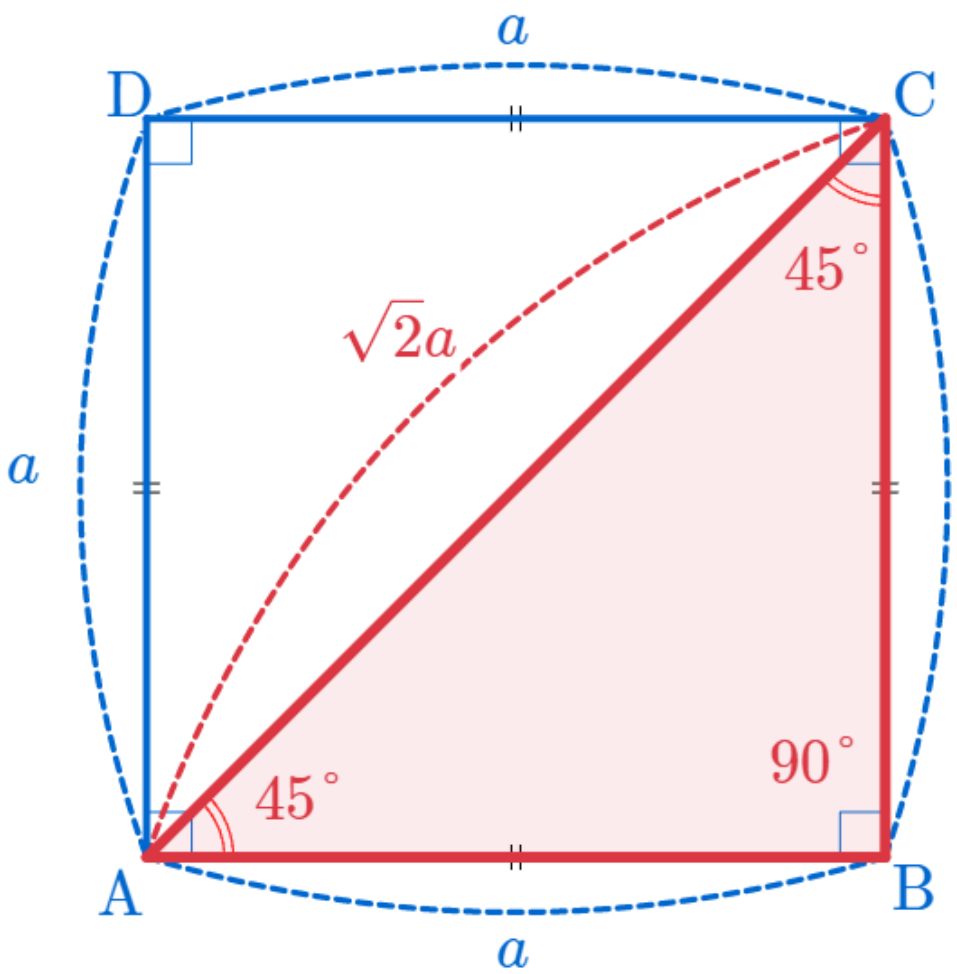

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$$2y = 90^\circ$$

$$\therefore\ y = 45^\circ$$

$$\therefore \sqrt{2}a\ :\ a\ :\ a\ = \sqrt{2}\ :\ 1\ :\ 1$$

github:
https://min7014.github.io/math20200114001.html

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