직각이등변삼각형

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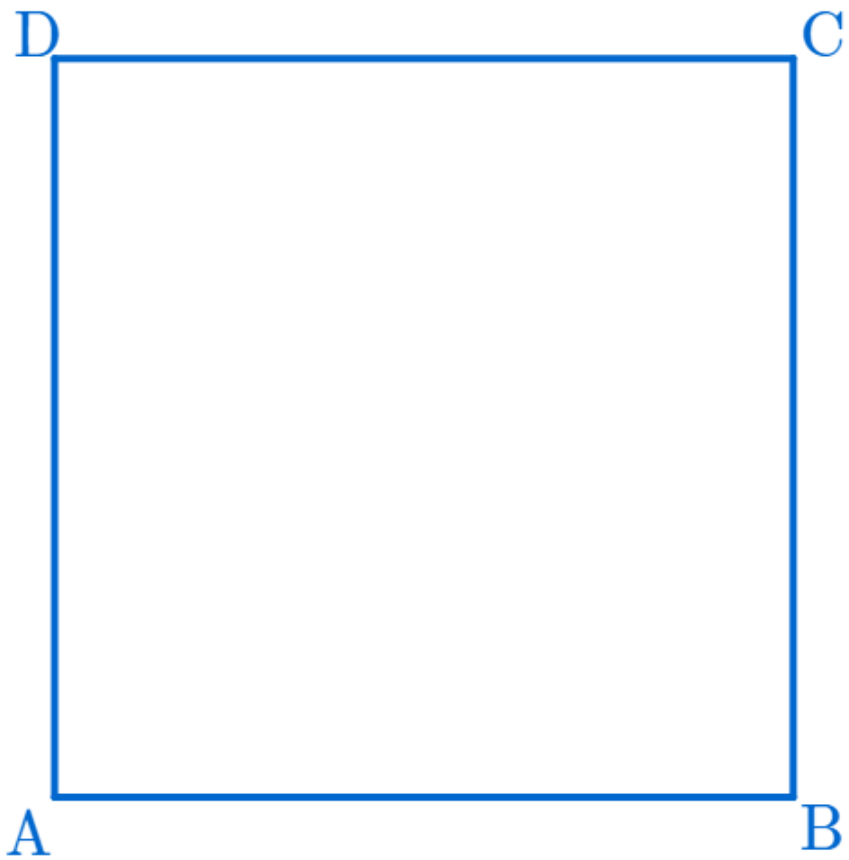

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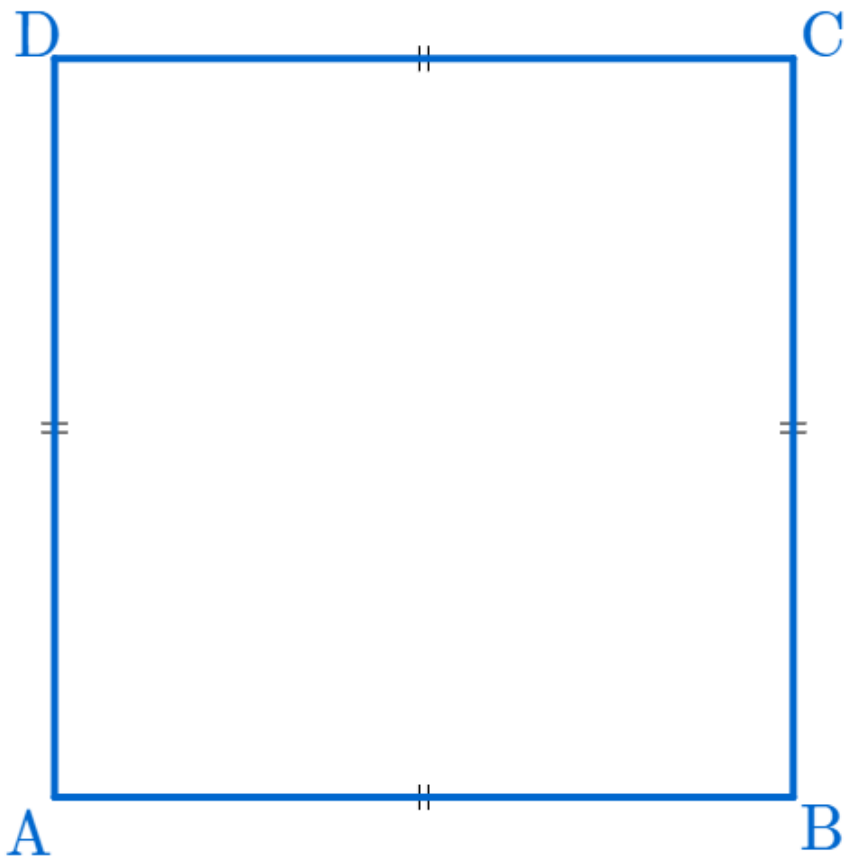

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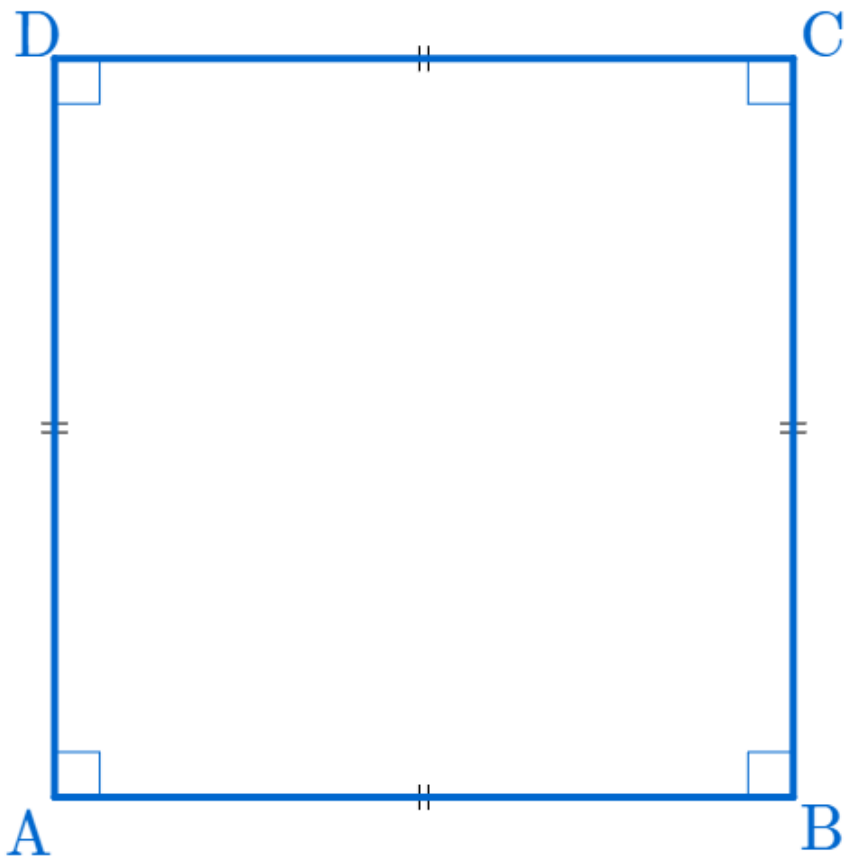

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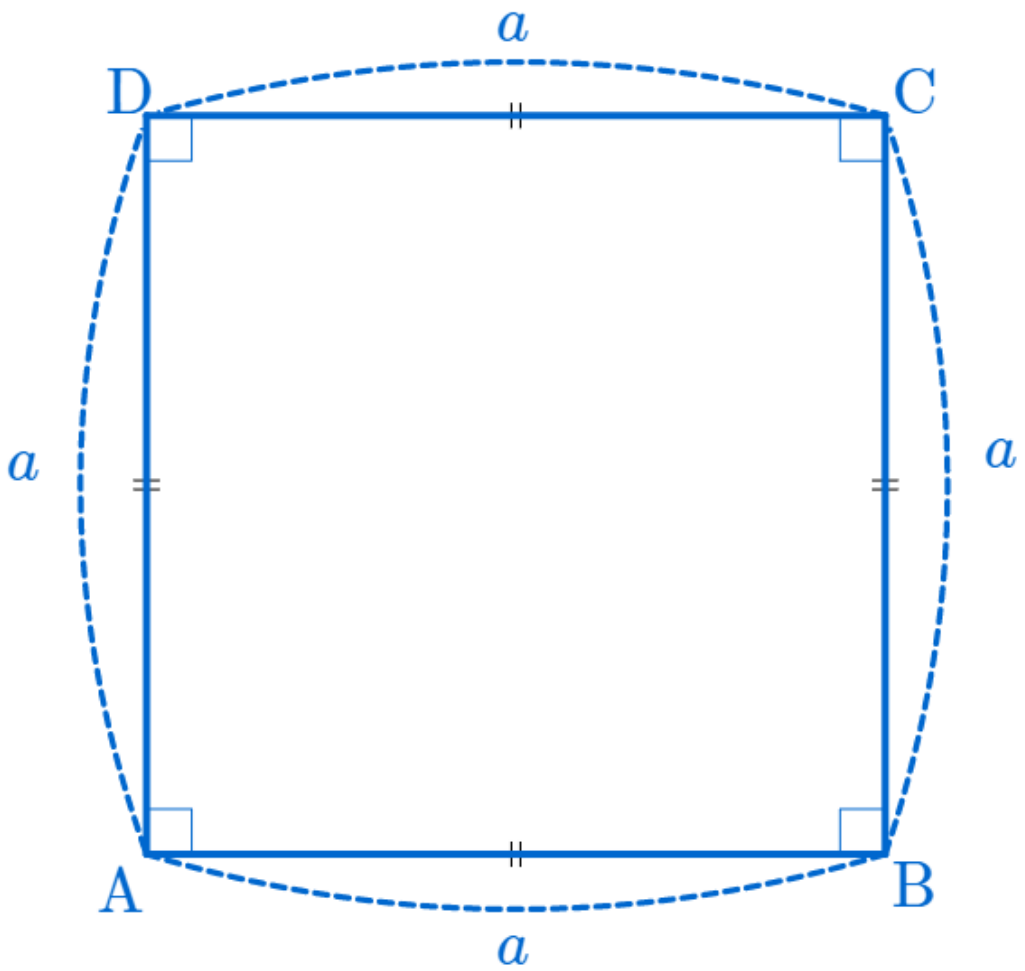

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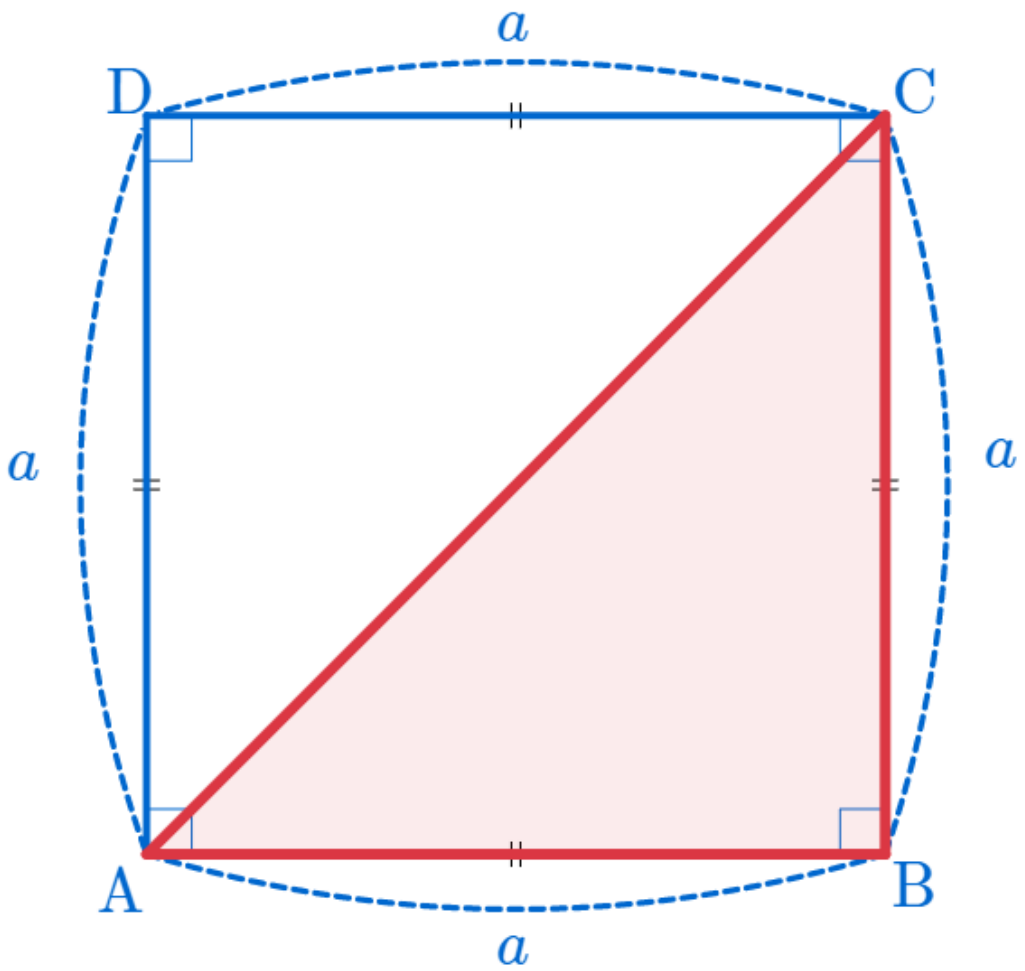

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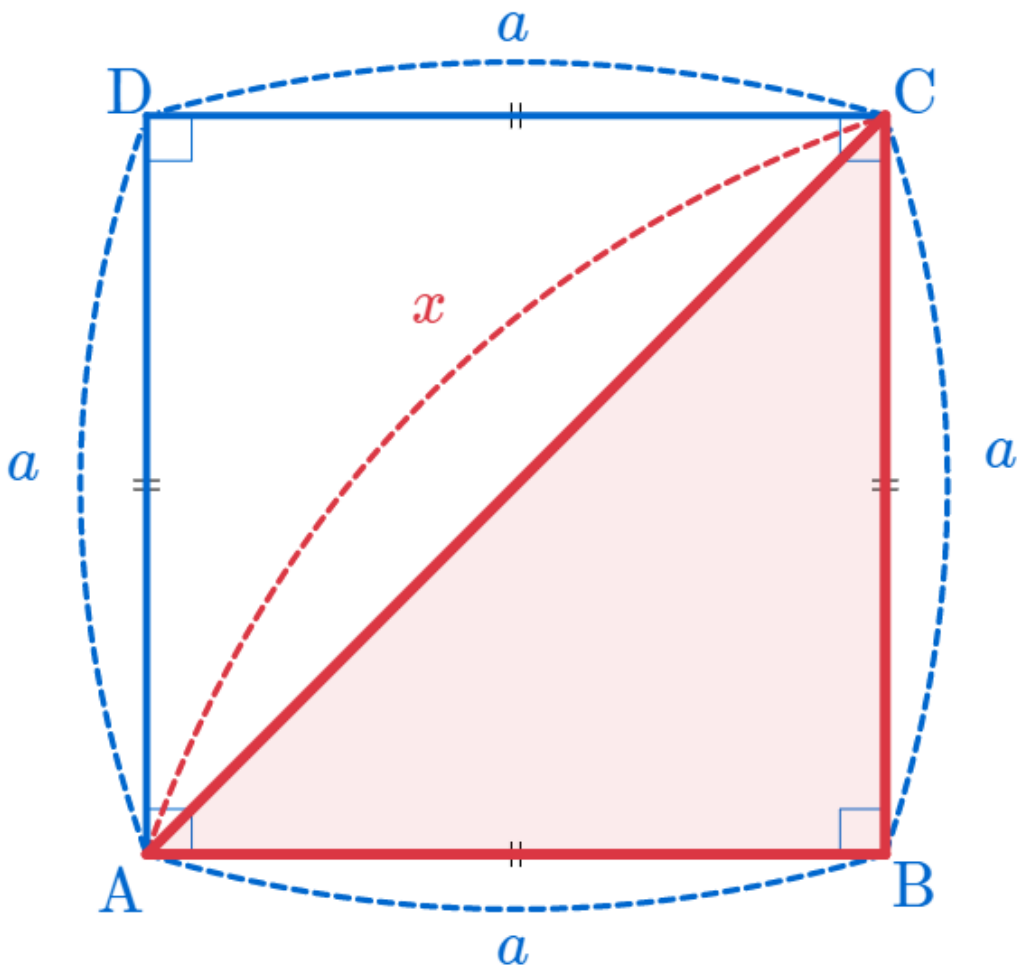

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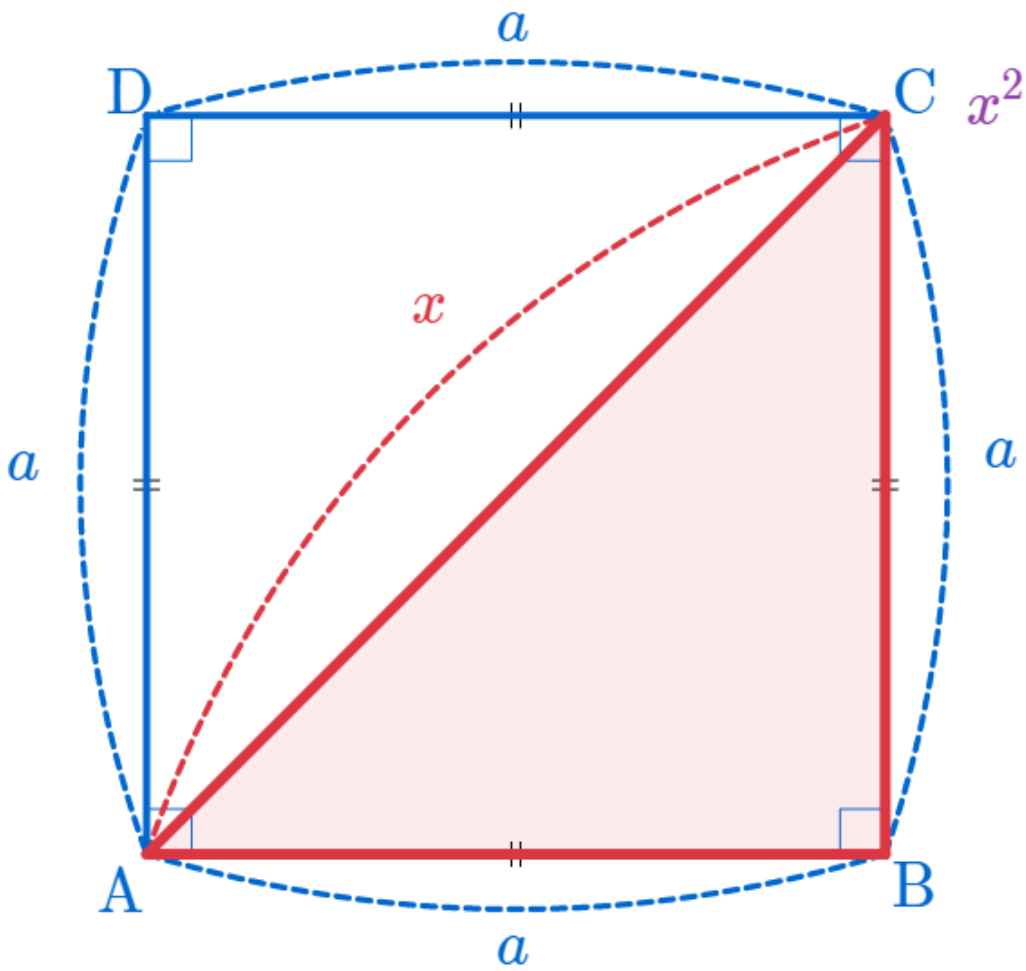
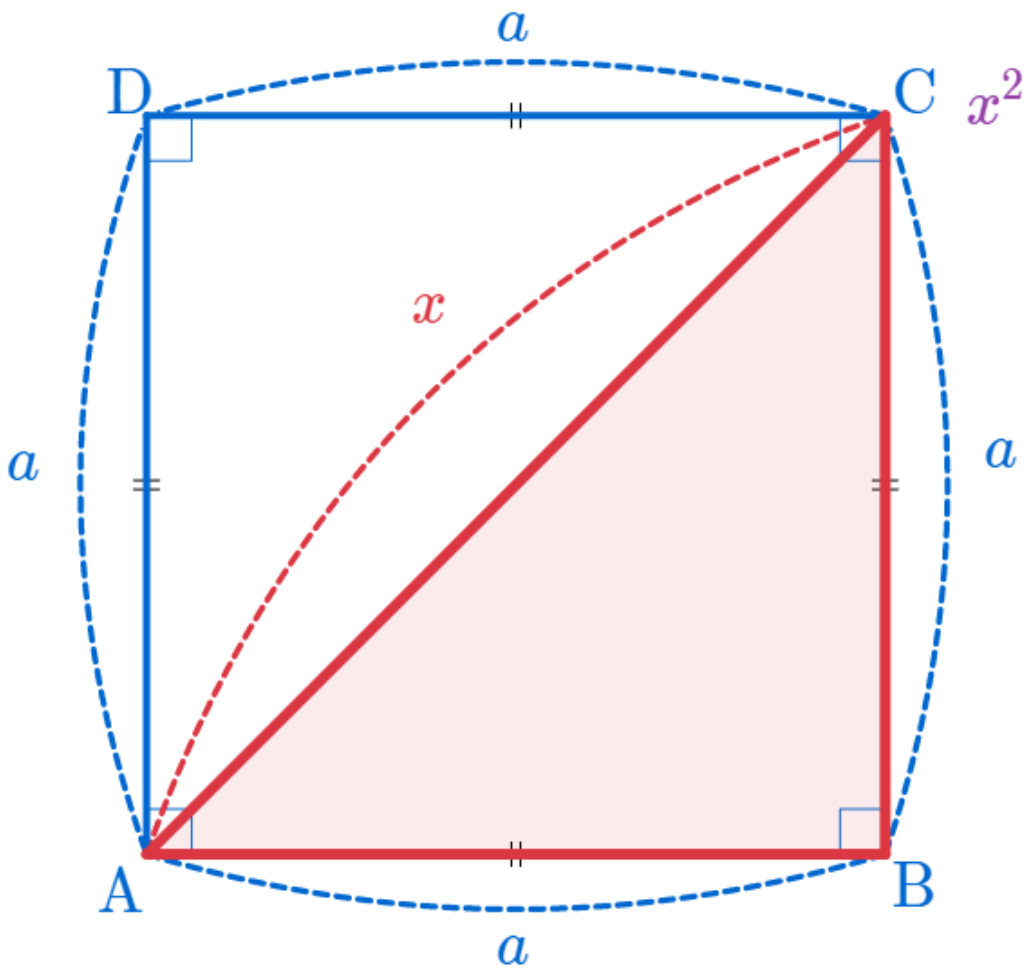


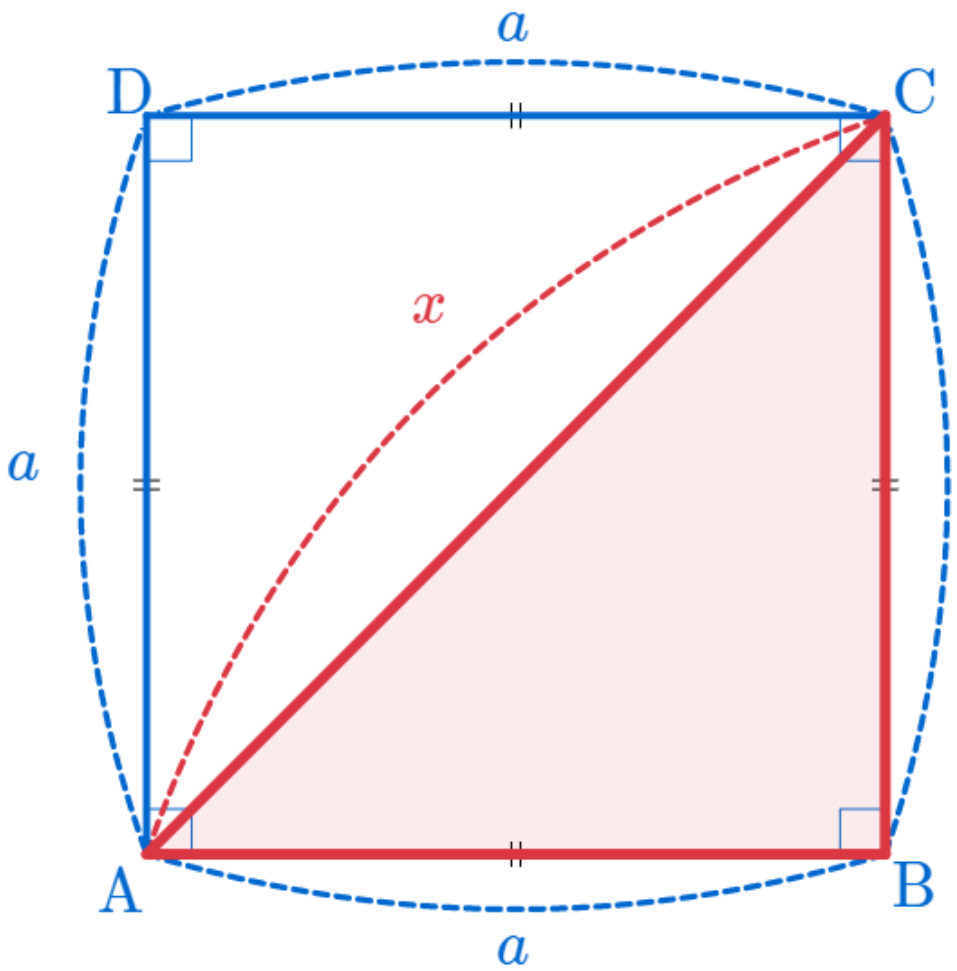
$$x^2 = a^2 + a^2$$

직각이등변삼각형



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

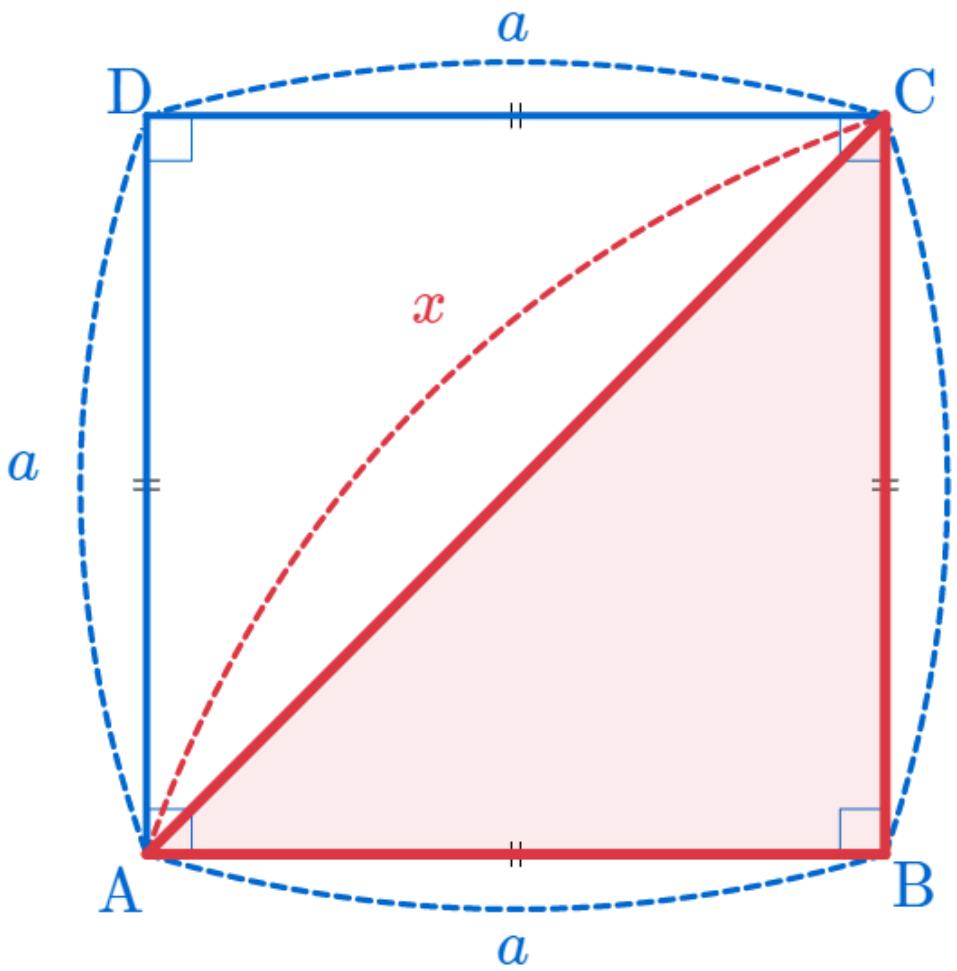
직각이등변삼각형



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

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

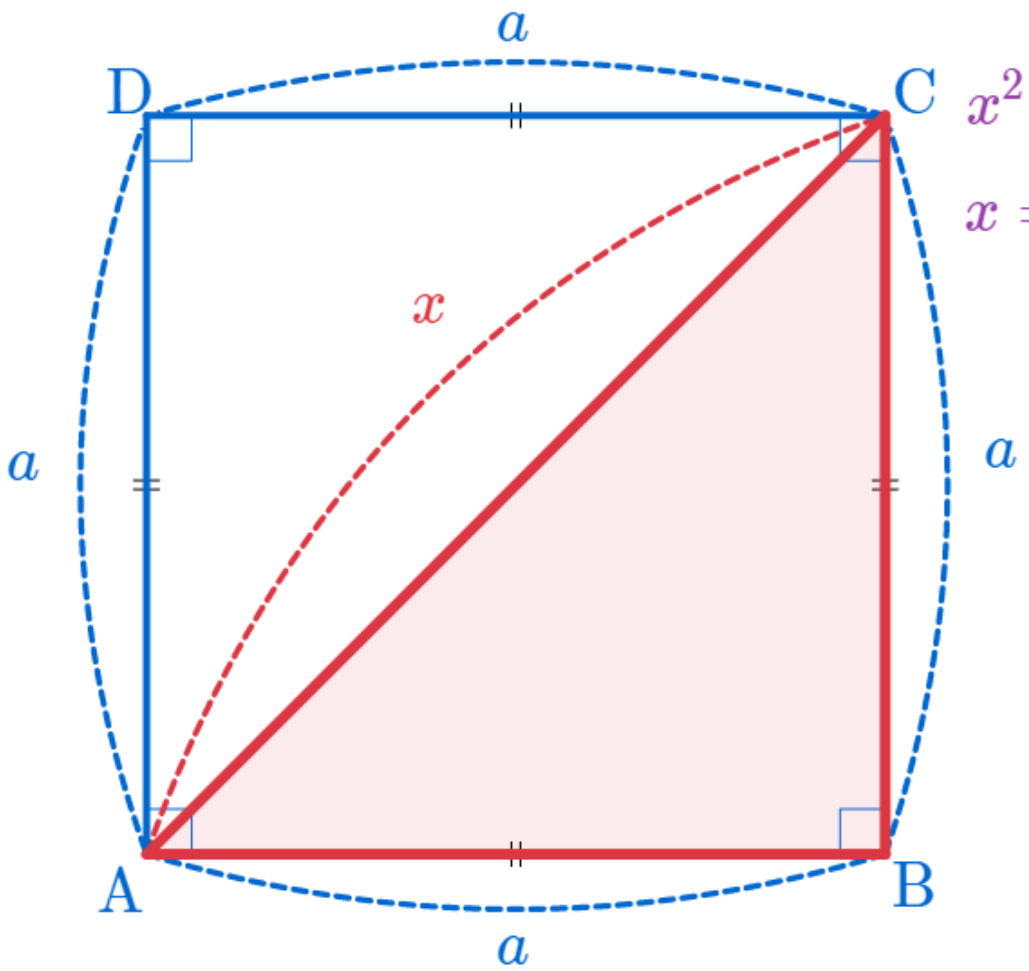
직각이등변삼각형



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

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

직각이등변삼각형

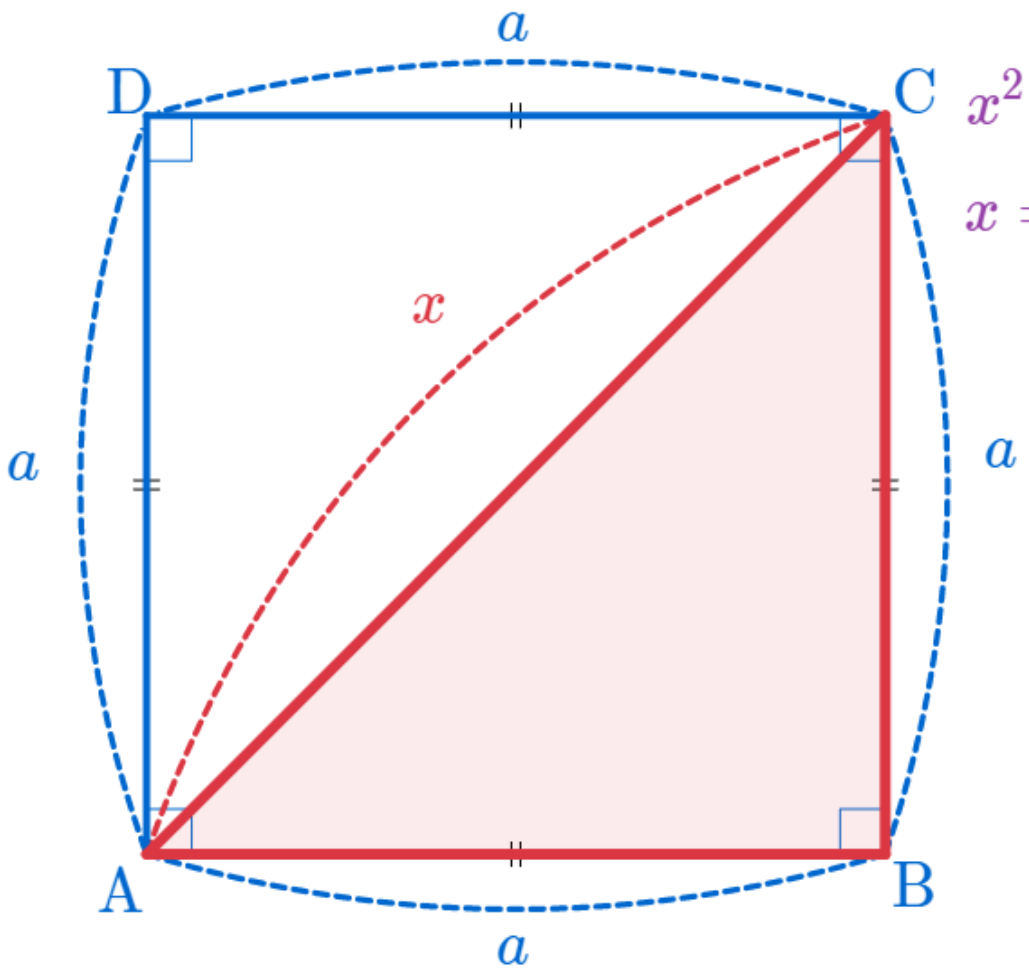


$$x^2 = a^2 + a^2 = 2a^2$$

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

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

직각이등변삼각형

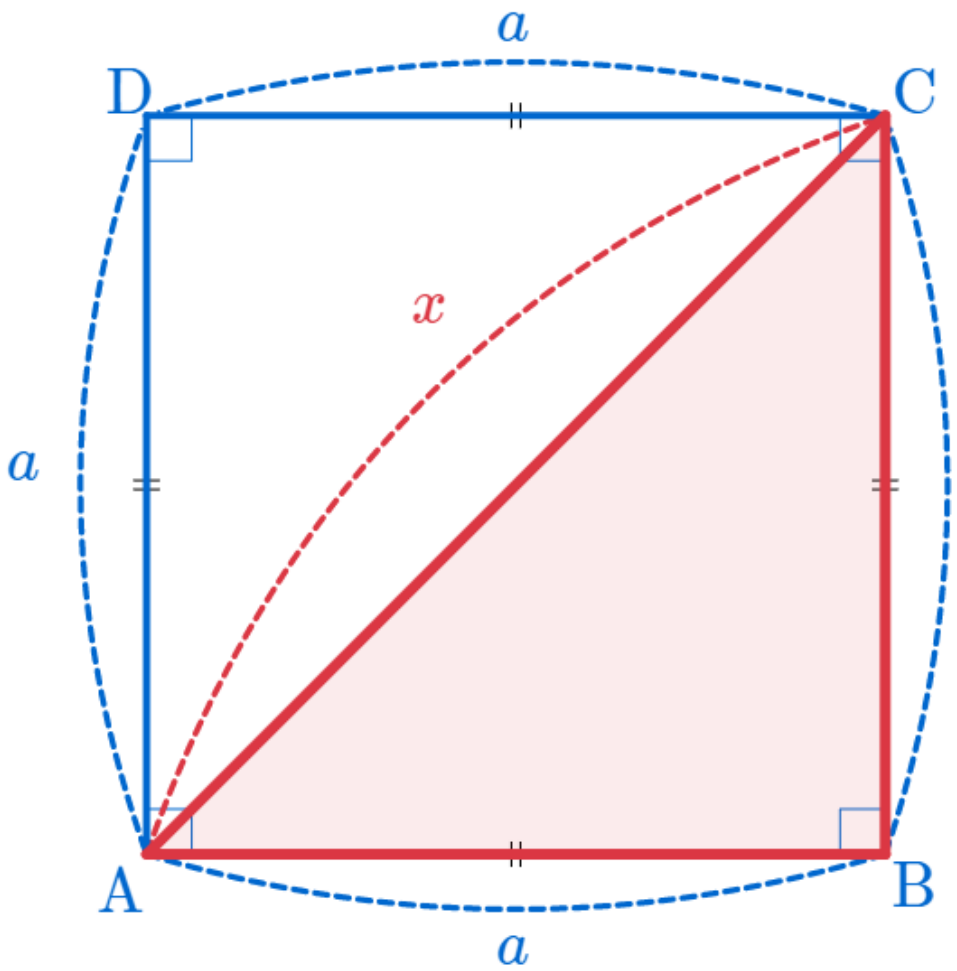


$$x^2 = a^2 + a^2 = 2a^2$$

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

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

직각이등변삼각형



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

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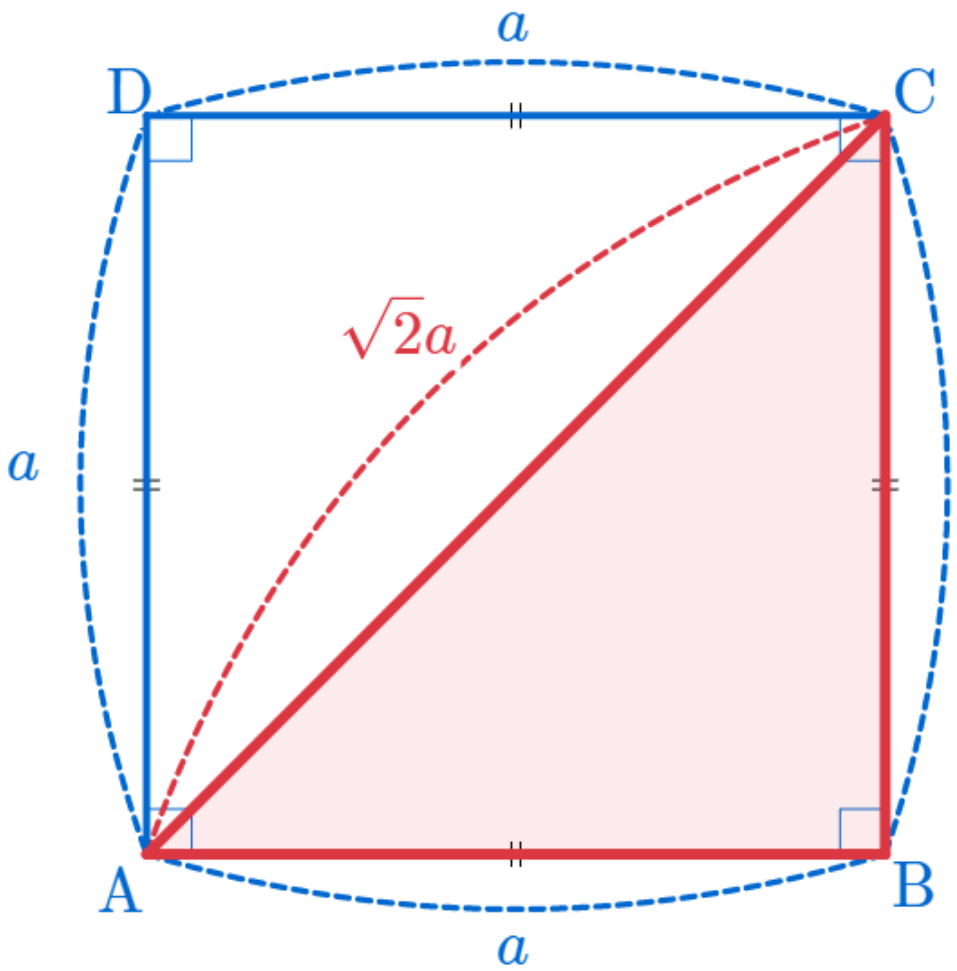
$$\therefore x = \sqrt{2}a \ (\because \ x > 0\,)$$

직각이등변삼각형



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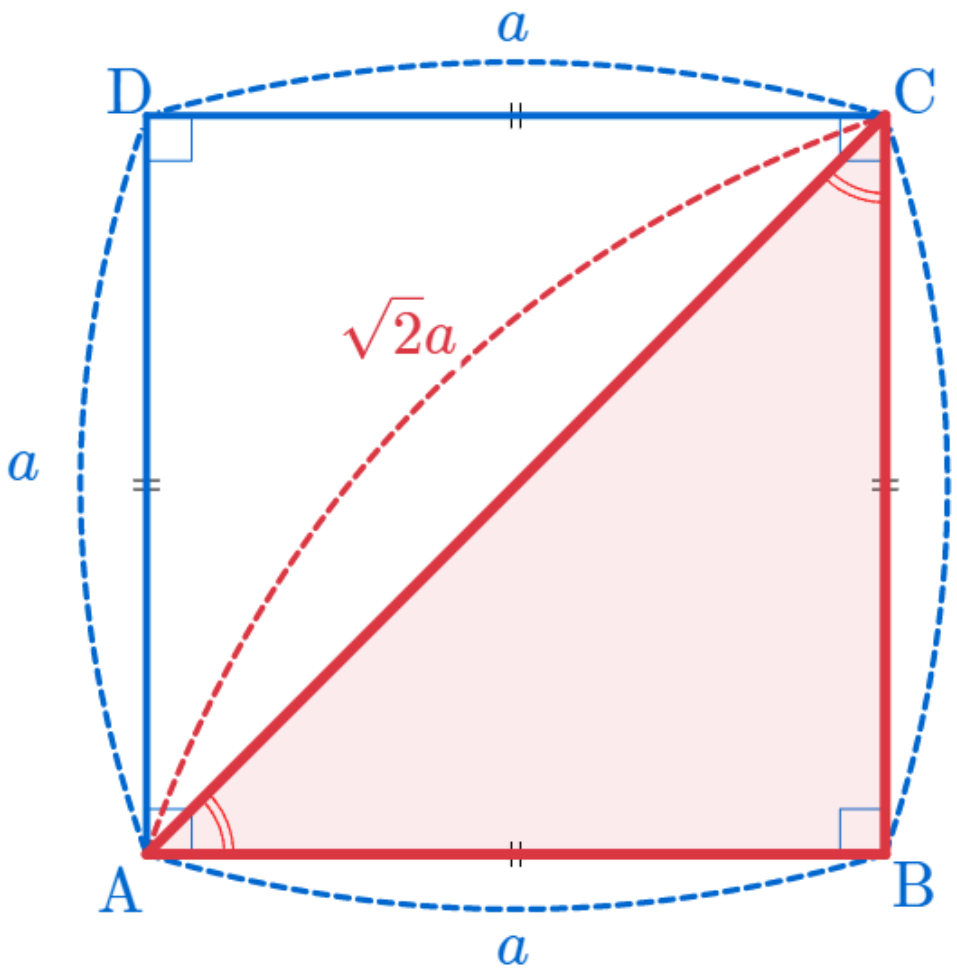

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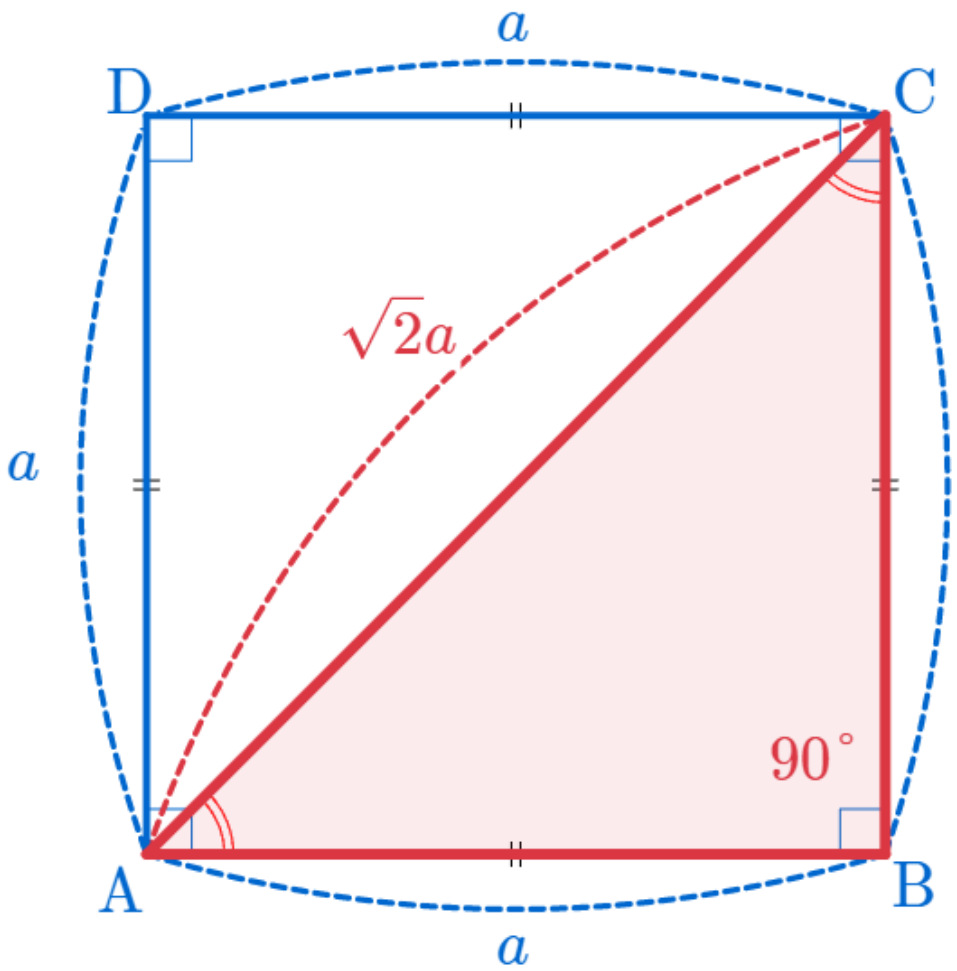

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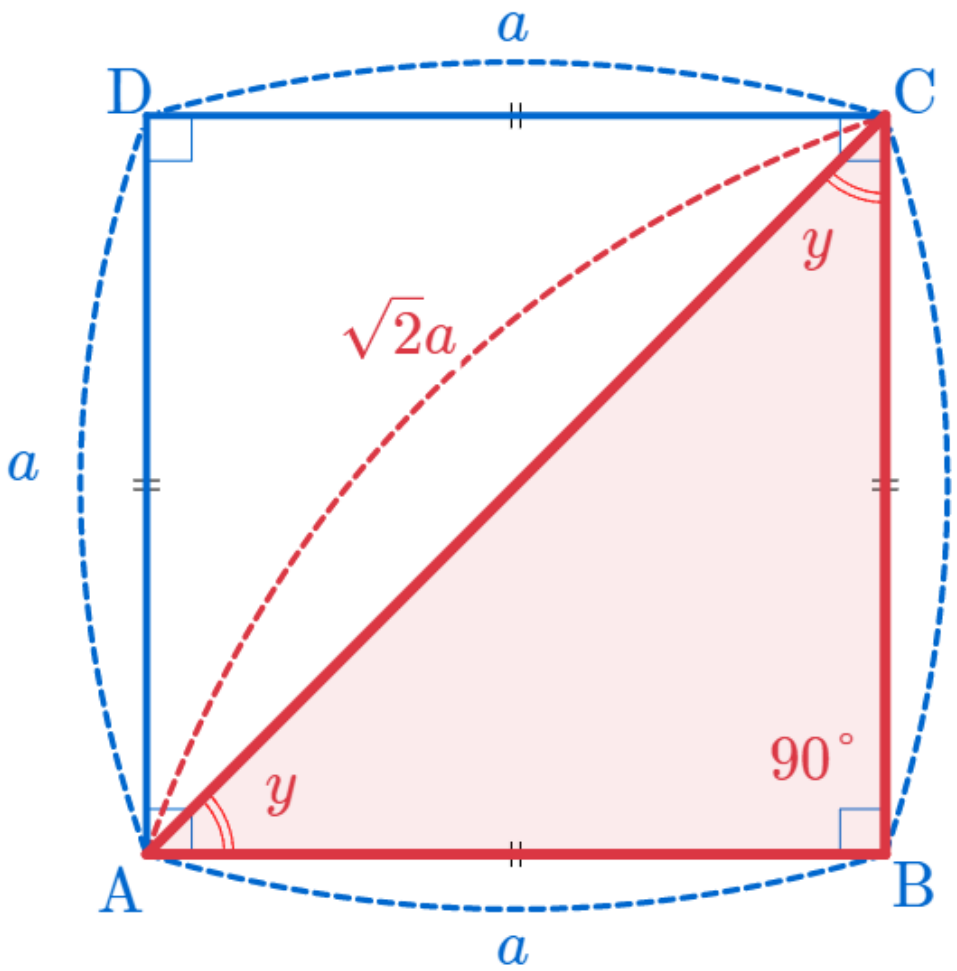

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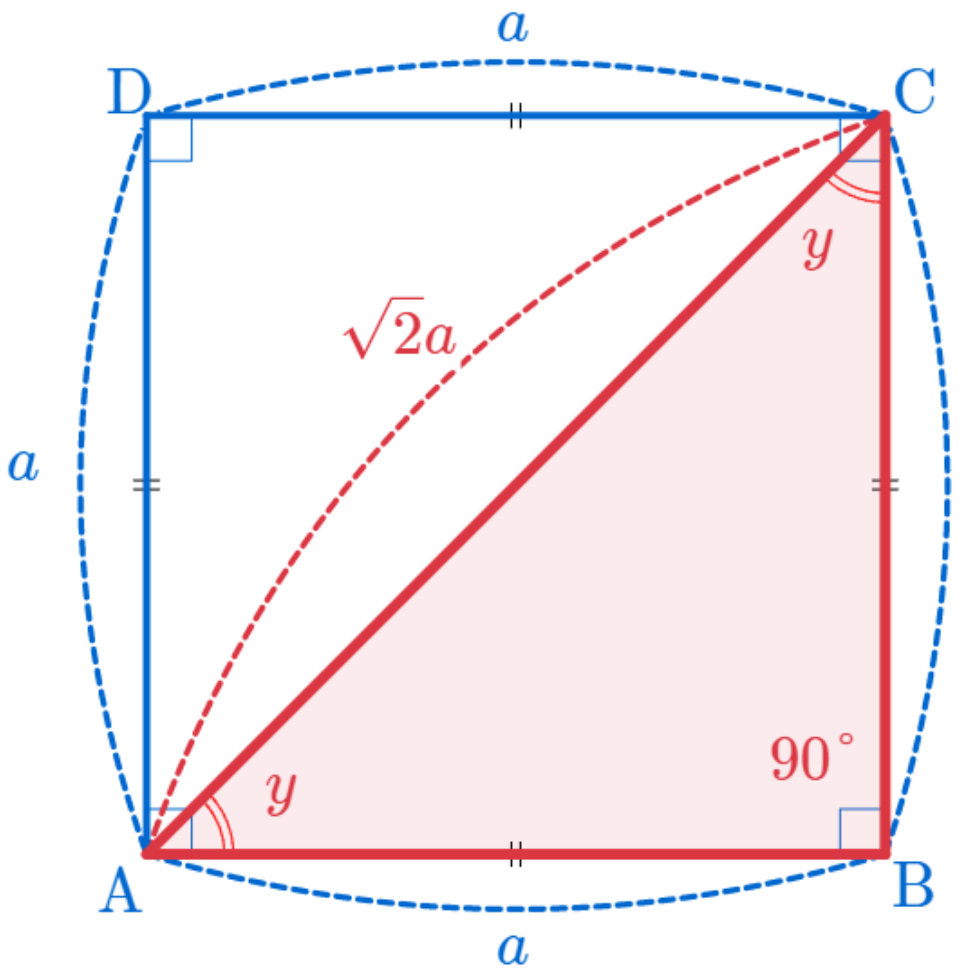

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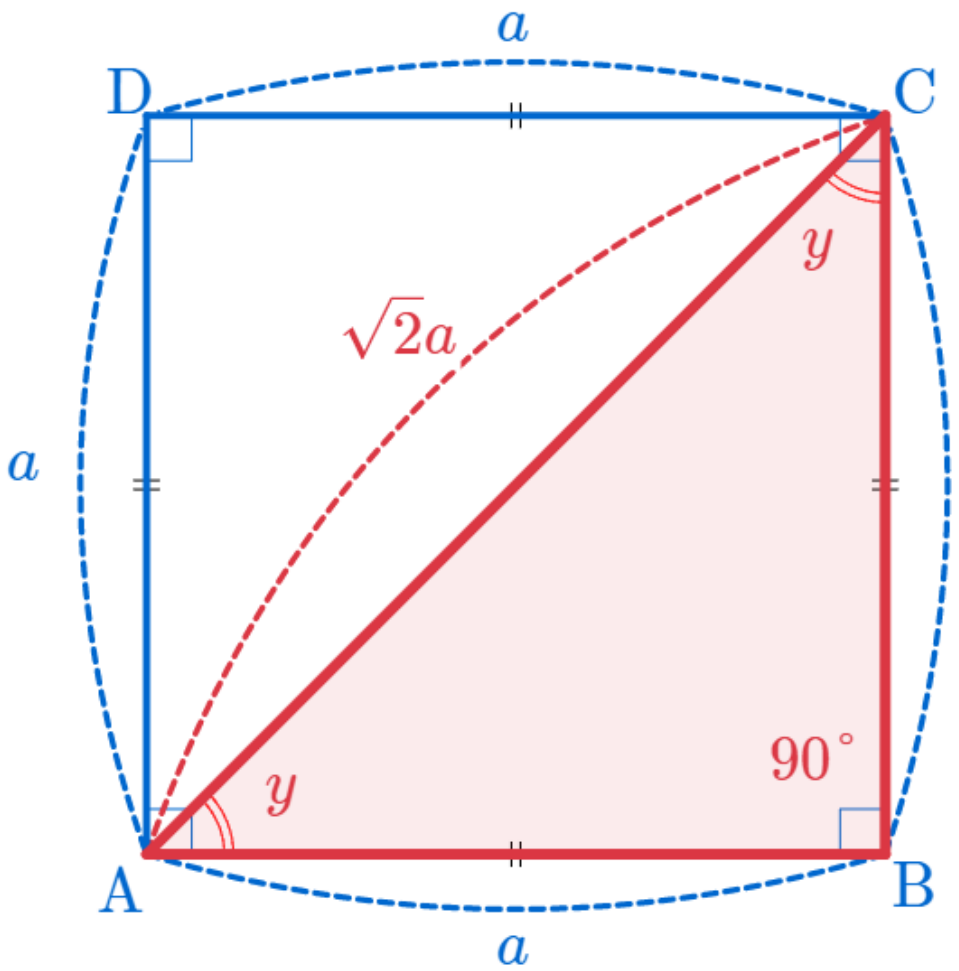
$$y + y + 90^\circ = 180^\circ$$

직각이등변삼각형



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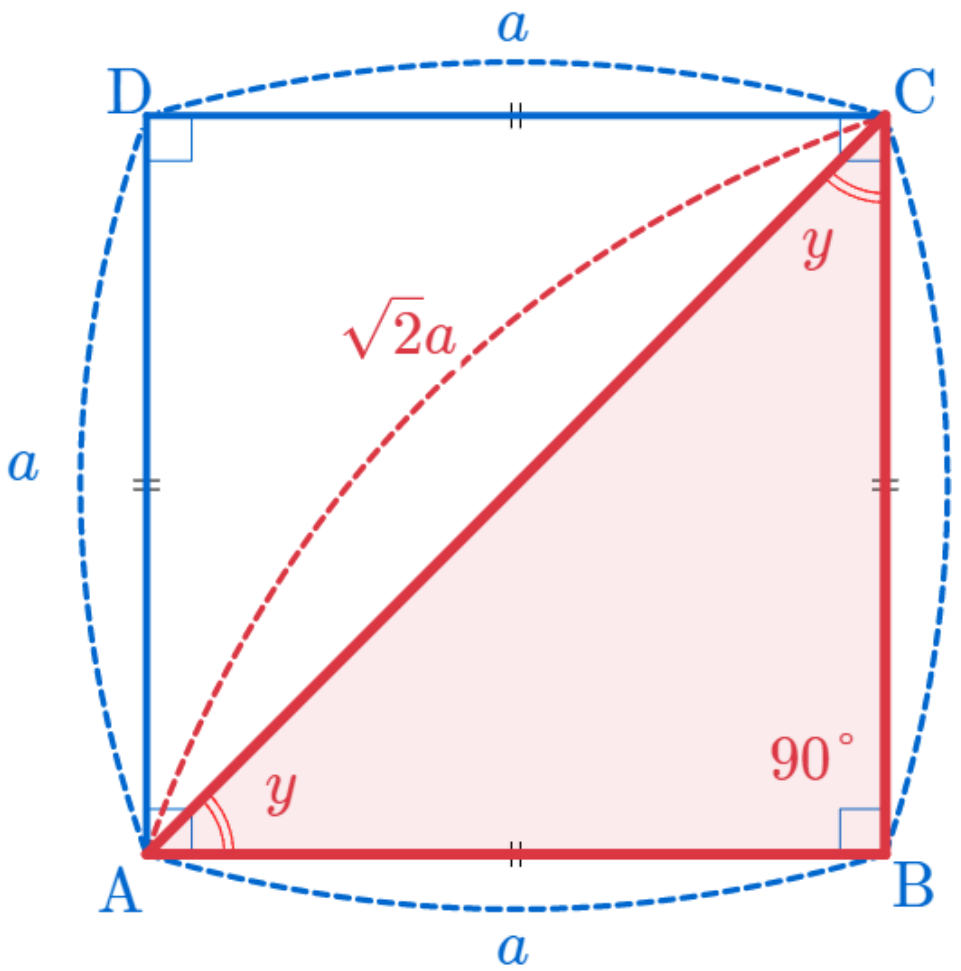
$$y + y + 90^\circ = 180^\circ$$

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

직각이등변삼각형



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

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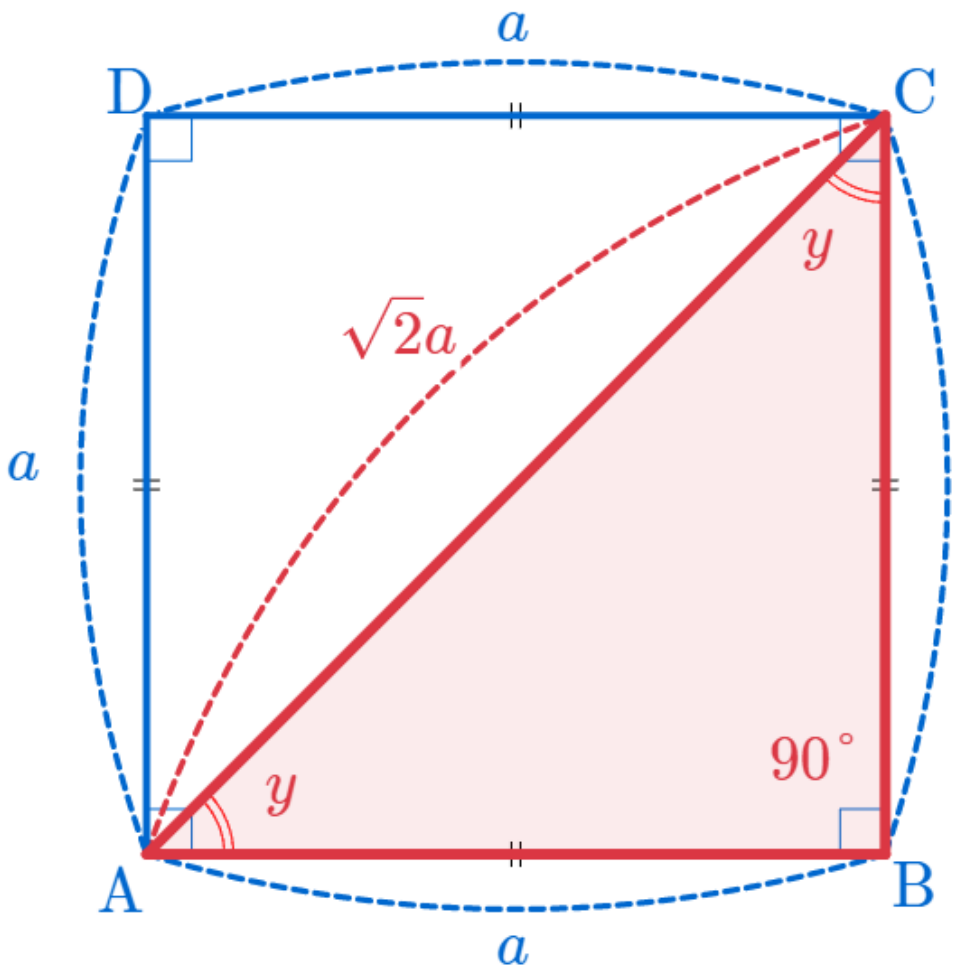
$$\therefore x = \sqrt{2}a \ (\because\ x > 0\,)$$

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

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

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

직각이등변삼각형



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

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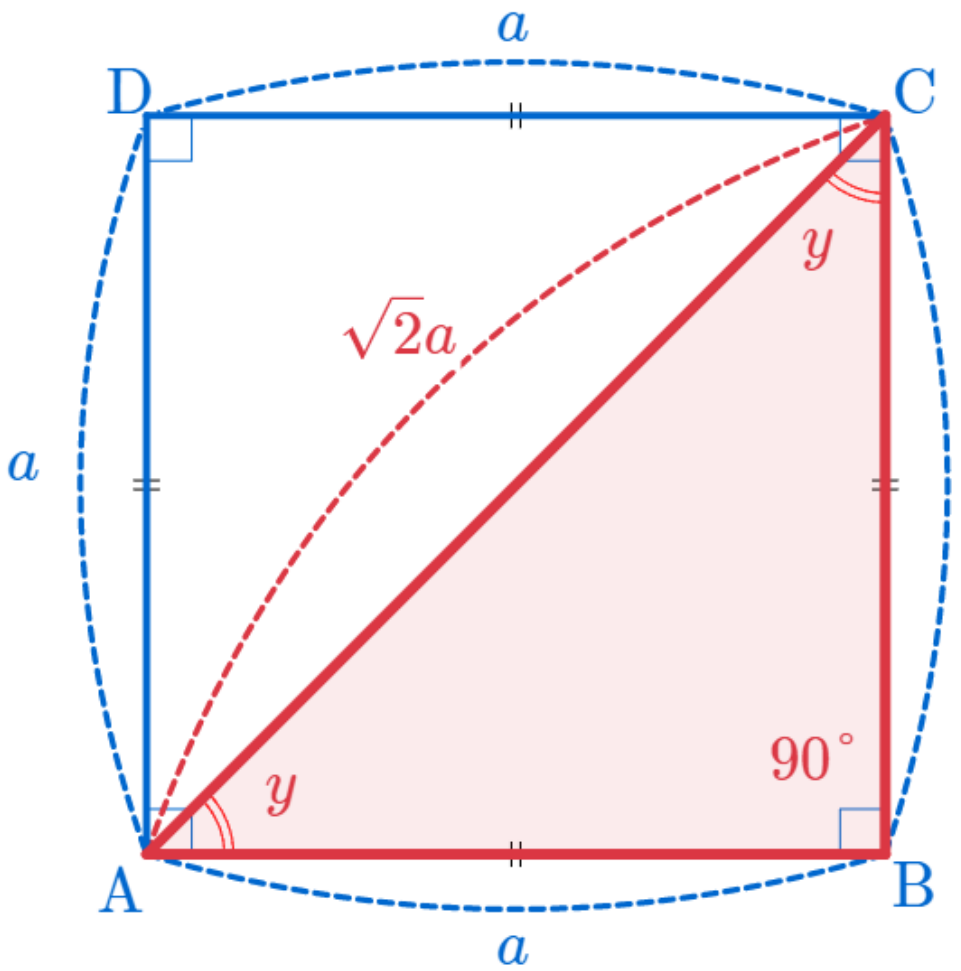
직각이등변삼각형



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

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

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

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

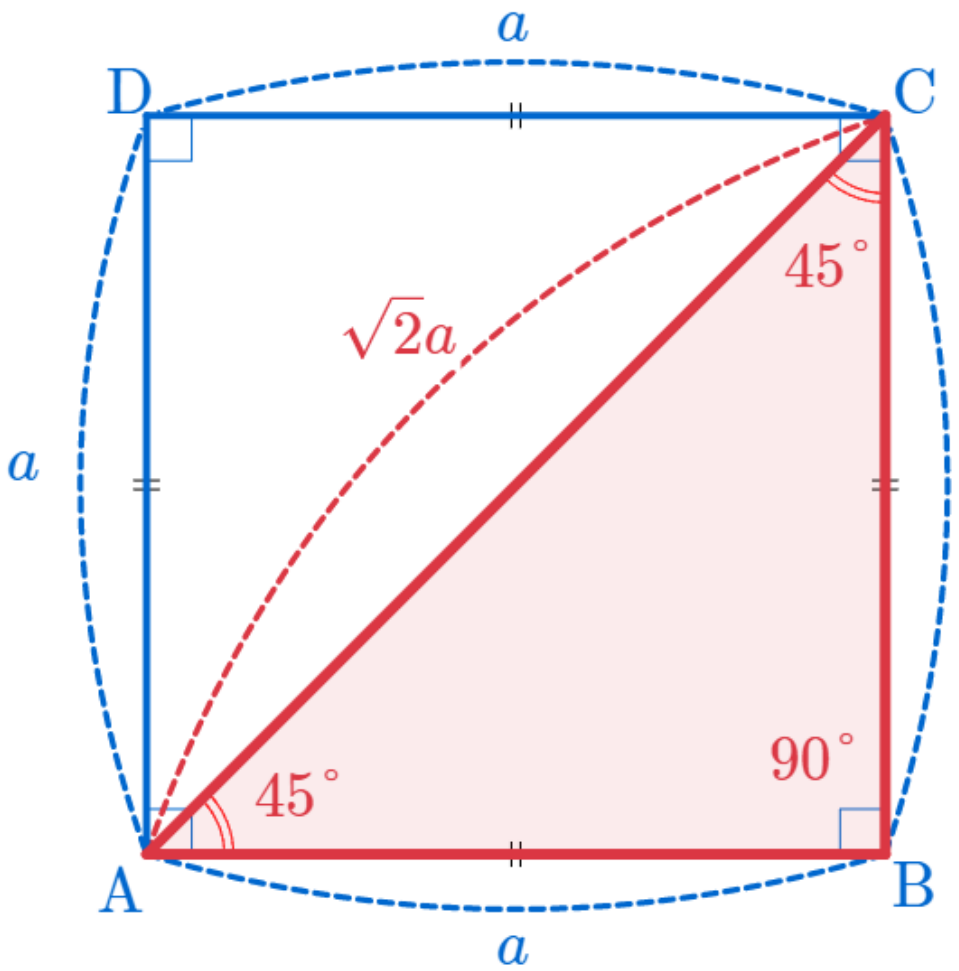
$$2y + 90^\circ = 180^\circ$$

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

$$2y = 90^\circ$$

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

직각이등변삼각형



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

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

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

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

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

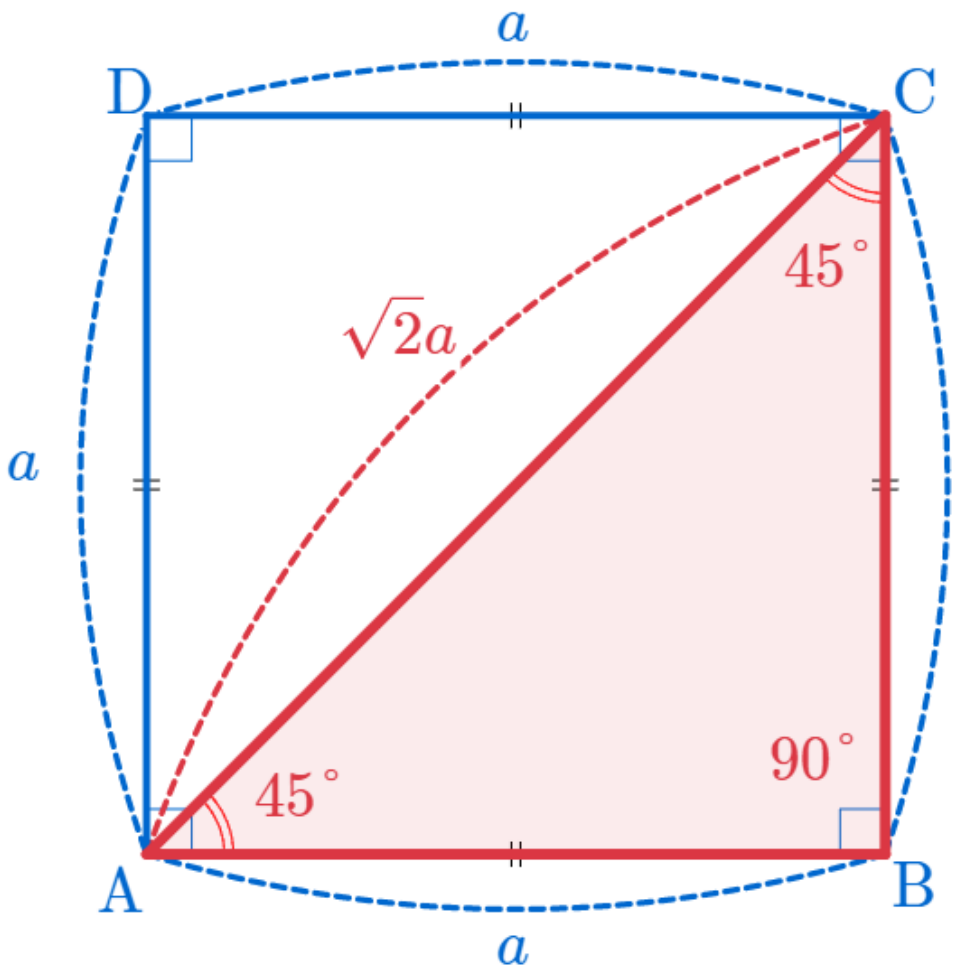
$$2y + 90^\circ = 180^\circ$$

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

$$2y = 90^\circ$$

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

직각이등변삼각형



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

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

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

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

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

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

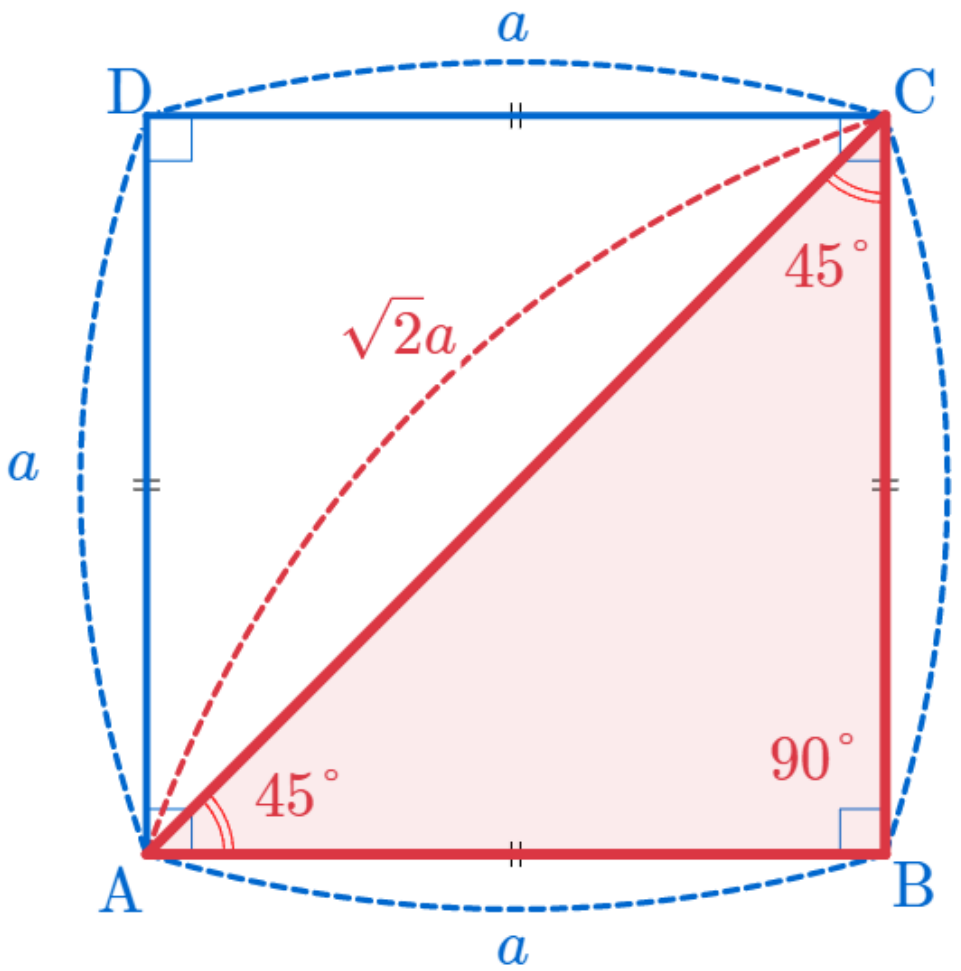
$$2y + 90^\circ = 180^\circ$$

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

$$2y = 90^\circ$$

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

직각이등변삼각형



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

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

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

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

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

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

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

$2y = 90^\circ$

$\therefore \ y = 45^\circ$

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