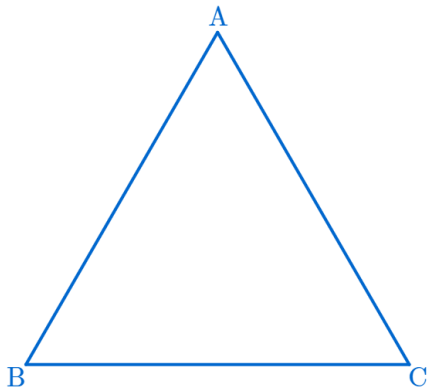
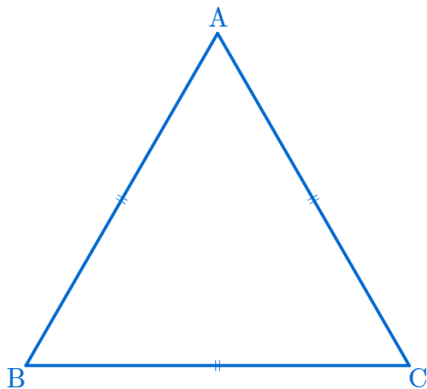
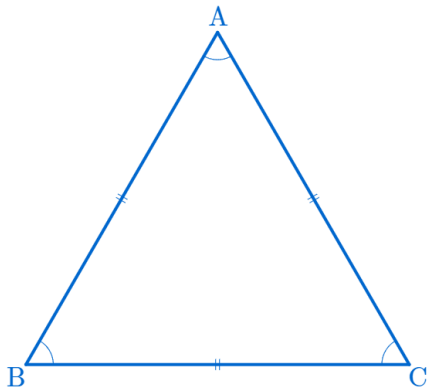
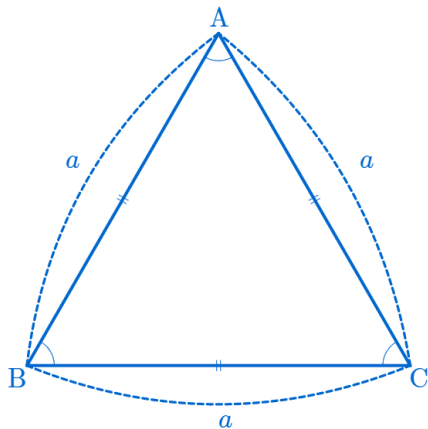


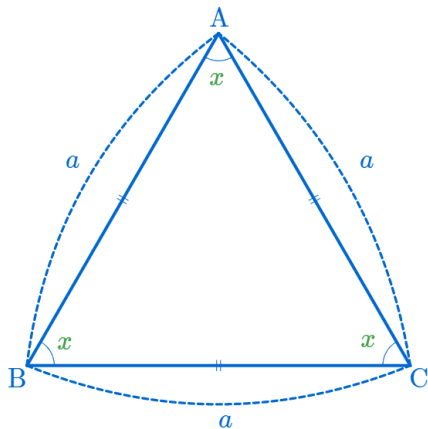
30-60-90도 삼각형

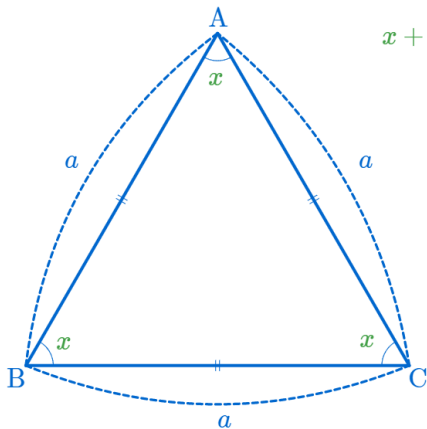




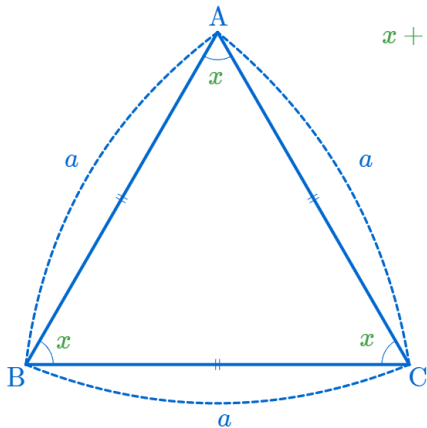






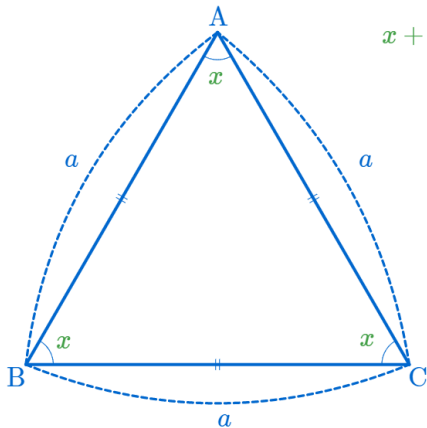


$$x + x + x = 180^\circ$$



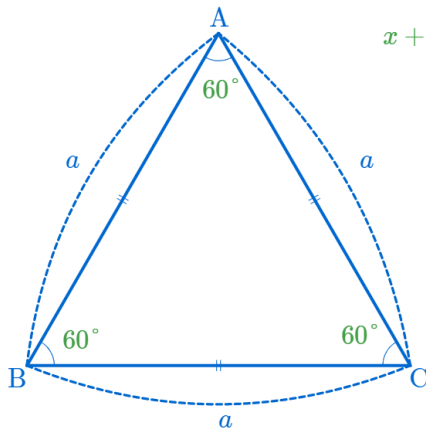
$$x + x + x = 180^\circ$$

$$3x = 180^\circ$$



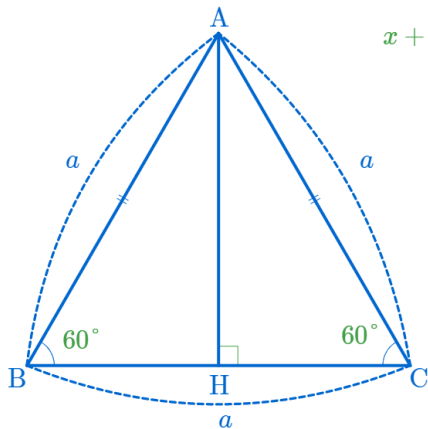
$$x + x + x = 180^\circ$$

$$3x = 180^\circ \quad \therefore x = 60^\circ$$



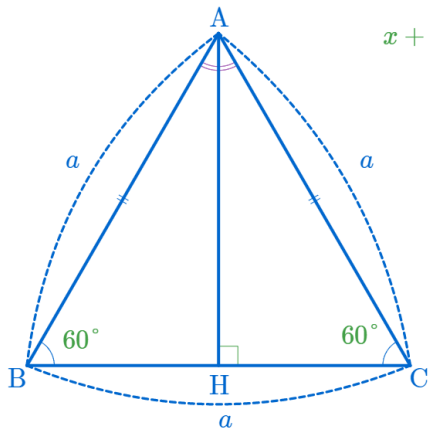
$$x + x + x = 180^\circ$$

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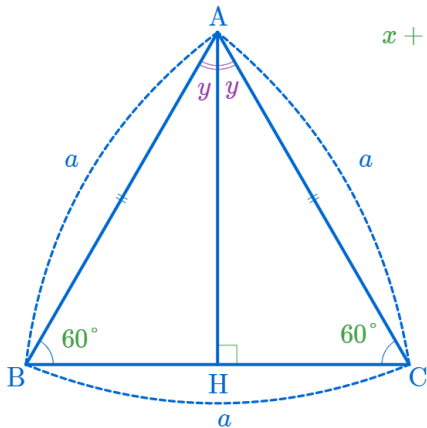
$$x + x + x = 180^\circ$$

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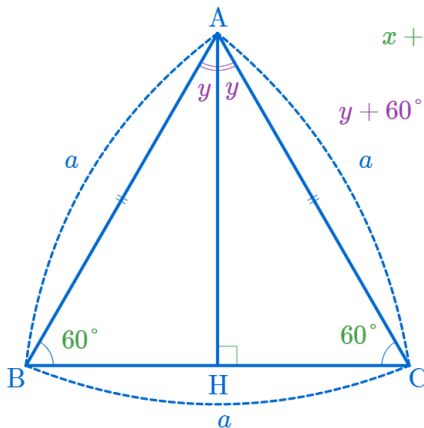
$$x + x + x = 180^\circ$$

$$3x = 180^\circ \quad \therefore x = 60^\circ$$



$$x + x + x = 180^\circ$$

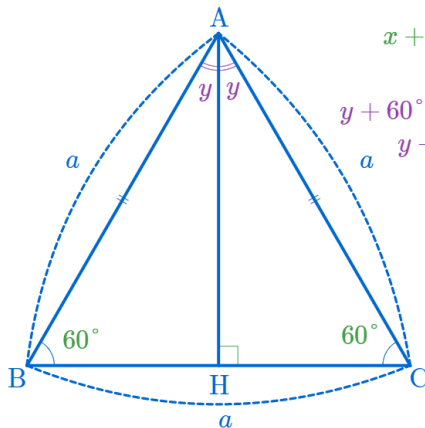
$$3x = 180^\circ \therefore x = 60^\circ$$



$$x + x + x = 180^\circ$$

$$3x = 180^\circ \therefore x = 60^\circ$$

$$y + 60^\circ + 90^\circ = 180^\circ$$

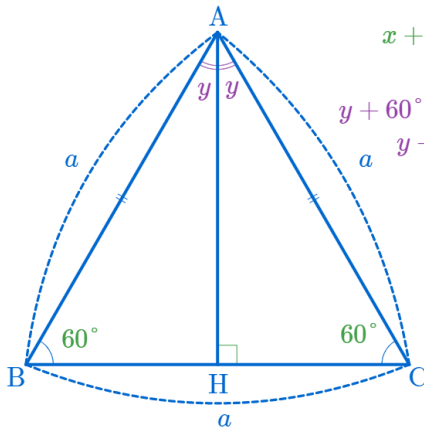


$$x + x + x = 180^\circ$$

$$3x = 180^\circ \quad \therefore x = 60^\circ$$

$$y + 60^\circ + 90^\circ = 180^\circ$$

$$y + 150^\circ = 180^\circ$$



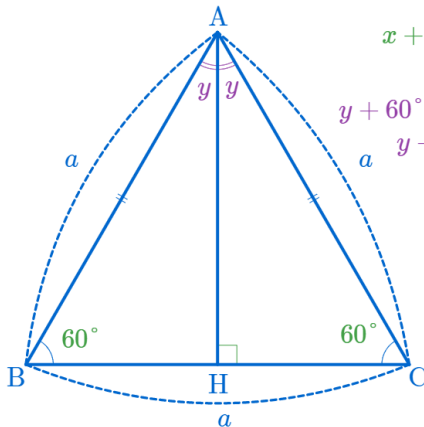
$$x + x + x = 180^\circ$$

$$3x = 180^\circ \quad \therefore x = 60^\circ$$

$$y + 60^\circ + 90^\circ = 180^\circ$$

$$y + 150^\circ = 180^\circ$$

$$y = 180^\circ - 150^\circ$$



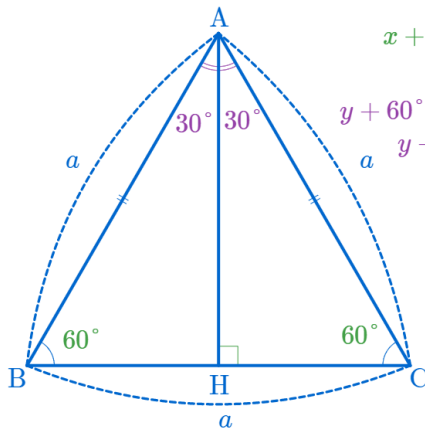
$$x + x + x = 180^\circ$$

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$$y + 60^\circ + 90^\circ = 180^\circ$$

$$y + 150^\circ = 180^\circ$$

$$y = 180^\circ - 150^\circ \therefore y = 30^\circ$$



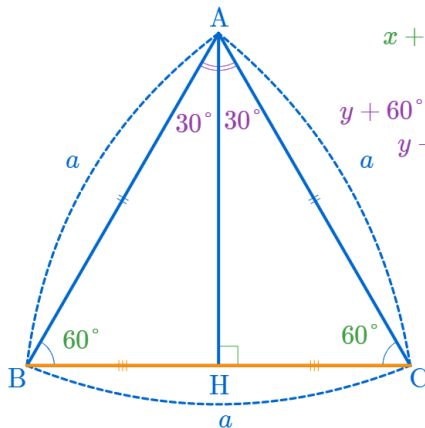
$$x + x + x = 180^\circ$$

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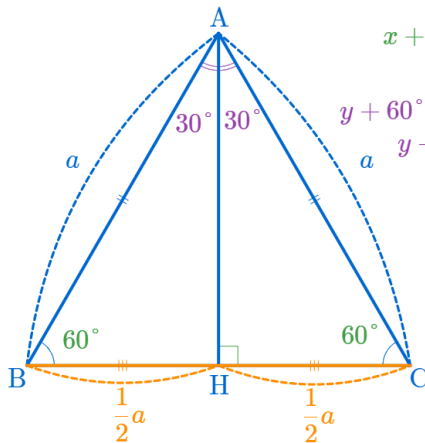
$$x + x + x = 180^\circ$$

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$$y + 60^\circ + 90^\circ = 180^\circ$$

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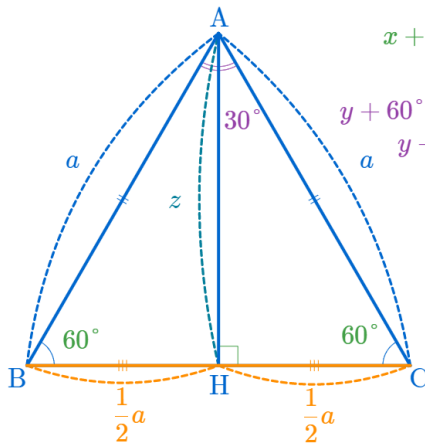
$$x + x + x = 180^\circ$$

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$$y = 180^\circ - 150^\circ \therefore y = 30^\circ$$



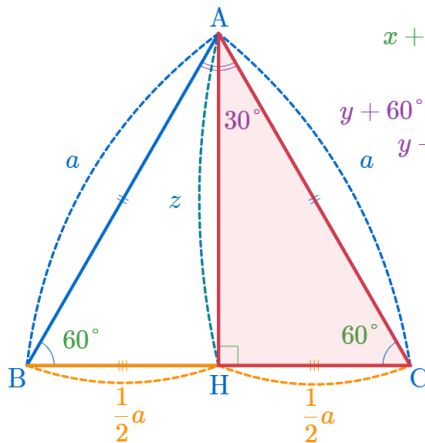
$$x + x + x = 180^\circ$$

$$3x = 180^\circ \therefore x = 60^\circ$$

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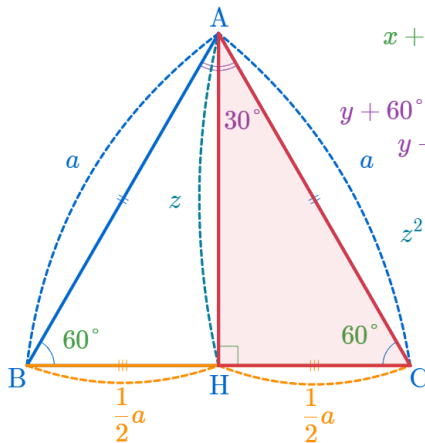
$$x + x + x = 180^\circ$$

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$$y + 60^\circ + 90^\circ = 180^\circ$$

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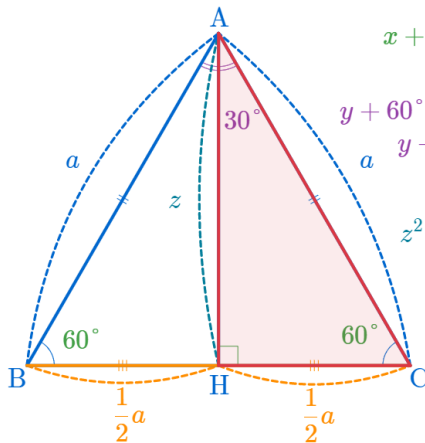
$$y + 60^\circ + 90^\circ = 180^\circ$$

$$y + 150^\circ = 180^\circ$$

$$y = 180^\circ - 150^\circ \therefore y = 30^\circ$$

$$z^2 + \left(\frac{1}{2}a\right)^2 = a^2$$

30-60-90도 삼각형



$$x + x + x = 180^\circ$$

$$3x = 180^\circ \therefore x = 60^\circ$$

$$y + 60^\circ + 90^\circ = 180^\circ$$

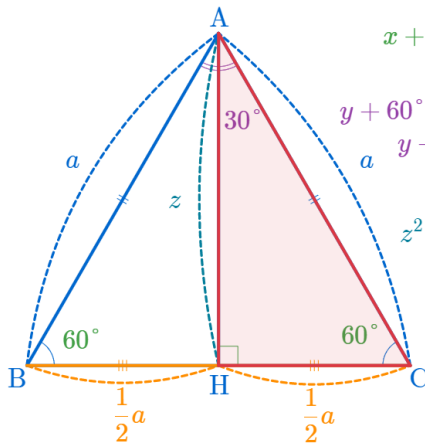
$$y + 150^\circ = 180^\circ$$

$$y = 180^\circ - 150^\circ \therefore y = 30^\circ$$

$$z^2 + \left(\frac{1}{2}a\right)^2 = a^2$$

$$z^2 = a^2 - \left(\frac{1}{2}a\right)^2$$

30-60-90도 삼각형



$$x + x + x = 180^\circ$$

$$3x = 180^\circ \therefore x = 60^\circ$$

$$y + 60^\circ + 90^\circ = 180^\circ$$

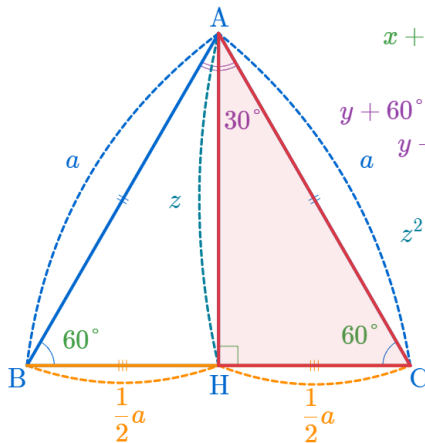
$$y + 150^\circ = 180^\circ$$

$$y = 180^\circ - 150^\circ \therefore y = 30^\circ$$

$$z^2 + \left(\frac{1}{2}a\right)^2 = a^2$$

$$z^2 = a^2 - \left(\frac{1}{2}a\right)^2 = \frac{3}{4}a^2$$

30-60-90도 삼각형



$$x + x + x = 180^\circ$$

$$3x = 180^\circ \therefore x = 60^\circ$$

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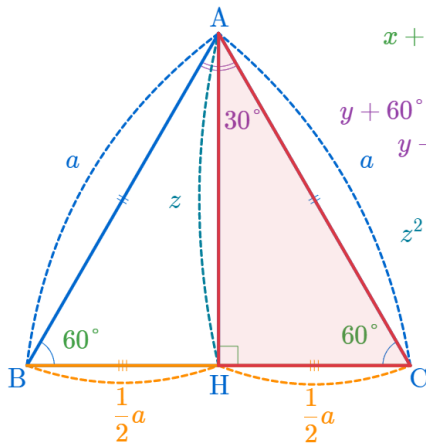
$$y = 180^\circ - 150^\circ \therefore y = 30^\circ$$

$$z^2 + \left(\frac{1}{2}a\right)^2 = a^2$$

$$z^2 = a^2 - \left(\frac{1}{2}a\right)^2 = \frac{3}{4}a^2$$

$$z = \pm \frac{\sqrt{3}}{2}a$$

30-60-90도 삼각형



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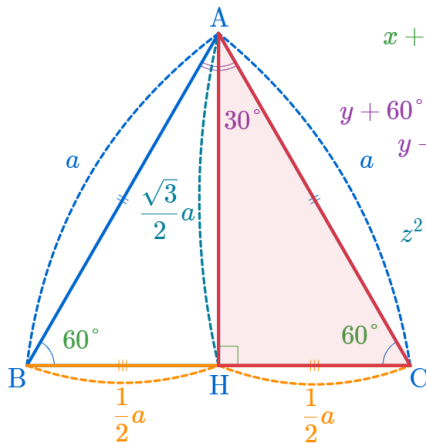
$$z^2 + \left(\frac{1}{2}a\right)^2 = a^2$$

$$z^2 = a^2 - \left(\frac{1}{2}a\right)^2 = \frac{3}{4}a^2$$

$$z = \pm \frac{\sqrt{3}}{2}a$$

$$\therefore z = \frac{\sqrt{3}}{2}a (\because z > 0)$$

30-60-90도 삼각형



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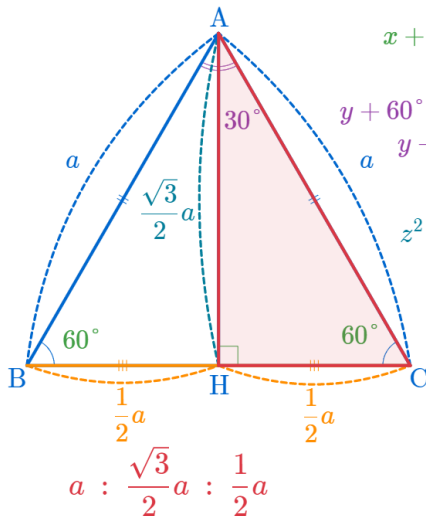
$$y = 180^\circ - 150^\circ \therefore y = 30^\circ$$

$$z^2 + \left(\frac{1}{2}a\right)^2 = a^2$$

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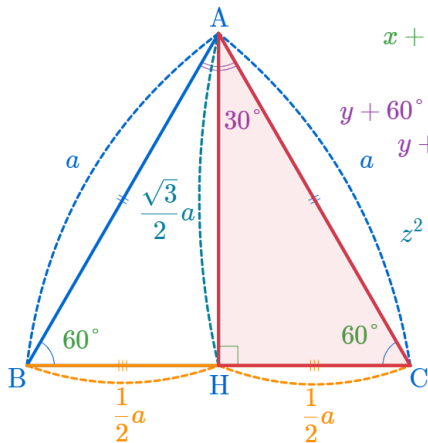
$$y = 180^\circ - 150^\circ \therefore y = 30^\circ$$

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$$z = \pm \frac{\sqrt{3}}{2}a$$

$$\therefore z = \frac{\sqrt{3}}{2}a (\because z > 0)$$



$$a : \frac{\sqrt{3}}{2}a : \frac{1}{2}a = 2 : \sqrt{3} : 1$$

$$x + x + x = 180^\circ$$

$$3x = 180^\circ \therefore x = 60^\circ$$

$$y + 60^\circ + 90^\circ = 180^\circ$$

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