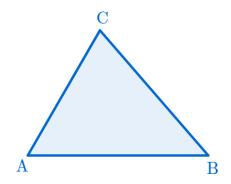
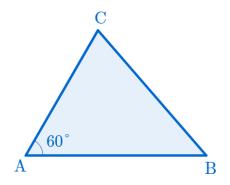
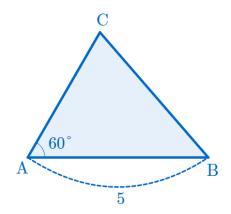
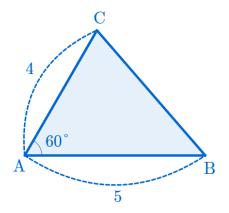
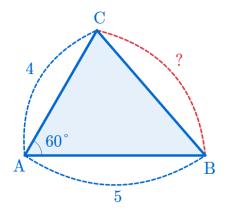
삼각비의 활용(
$$\overline{AB}=5$$
,  $\overline{AC}=4$ ,  $\angle A=60^\circ$ ) (Application of Trigonometric Ratio( $\overline{AB}=5$ ,  $\overline{AC}=4$ ,  $\angle A=60^\circ$ ))

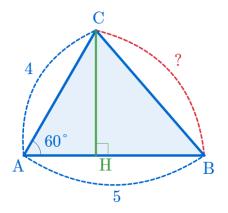


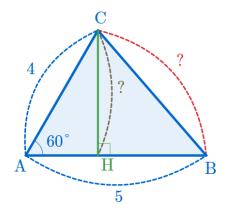


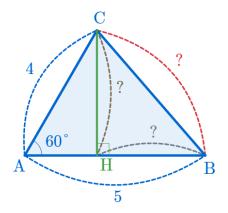


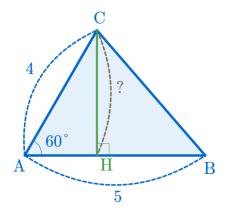


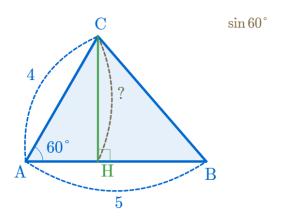


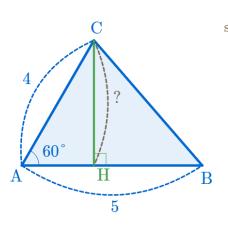




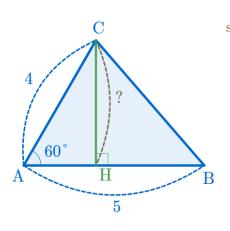








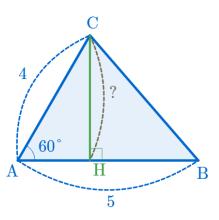
$$\sin 60^\circ = \frac{\overline{\text{CH}}}{4}$$



$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4}$$

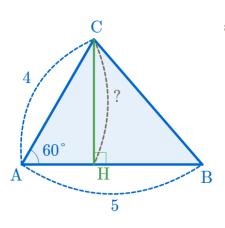
$$\overline{\text{CH}}$$

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$$\sin 60^\circ = \frac{\overline{\text{CH}}}{4}$$

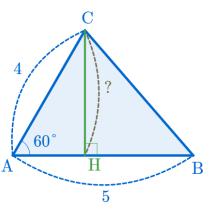
 $\overline{\rm CH} = 4\sin 60^\circ$ 



$$\sin 60^\circ = \frac{\overline{\text{CH}}}{4}$$

$$\overline{\mathrm{CH}} = 4\sin 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2}$$



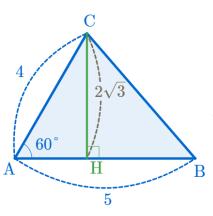
$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4}$$

$$\overline{\text{CH}} = 4\sin 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2}$$

$$\therefore \overline{\text{CH}} = 2\sqrt{3}$$

$$\therefore \overline{\text{CH}} = 2\sqrt{3}$$



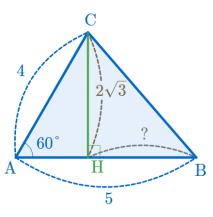
$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4}$$

$$\overline{\text{CH}} = 4\sin 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2}$$

$$\therefore \overline{\text{CH}} = 2\sqrt{3}$$

$$\therefore \overline{\text{CH}} = 2\sqrt{3}$$



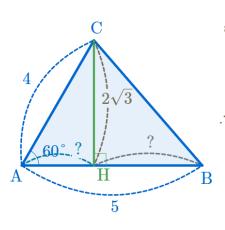
$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4}$$

$$\overline{\text{CH}} = 4\sin 60^{\circ}$$

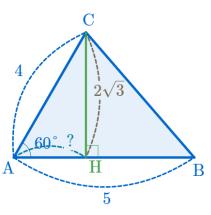
$$= 4 \times \frac{\sqrt{3}}{2}$$

$$\therefore \overline{\text{CH}} = 2\sqrt{3}$$

$$\therefore \overline{\text{CH}} = 2\sqrt{3}$$

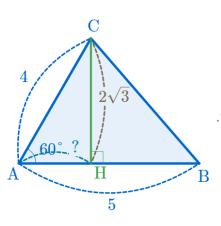


$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4}$$



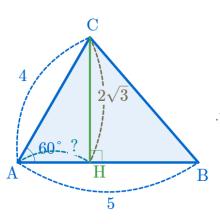
$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4}$$

$$\therefore \overline{\text{CH}} = 2\sqrt{3}$$



$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4}$$

 $\cos 60^{\circ}$ 

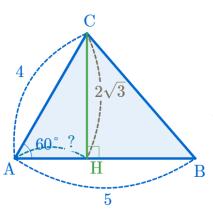


$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

$$\overline{CH} = 4 \sin 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3}$$

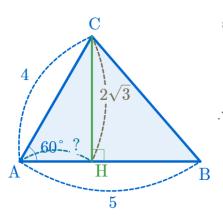


$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

$$\overline{CH} = 4 \sin 60^{\circ} \qquad \overline{AH}$$

$$= 4 \times \frac{\sqrt{3}}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3}$$

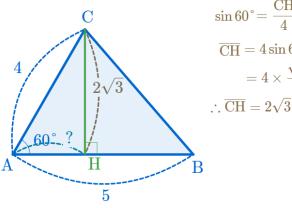


$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4}$$
  $\cos 60^{\circ} = \frac{\overline{\text{AH}}}{4}$ 

$$\overline{\text{CH}} = 4 \sin 60^{\circ} \quad \overline{\text{AH}} = 4 \cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2}$$

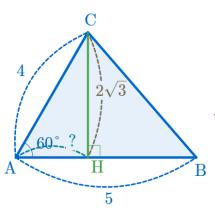
$$\therefore \overline{\text{CH}} = 2\sqrt{3}$$



$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4}$$
  $\cos 60^{\circ} = \frac{\overline{\text{AH}}}{4}$ 

$$\overline{\text{CH}} = 4 \sin 60^{\circ}$$
  $\overline{\text{AH}} = 4 \cos 60^{\circ}$ 

$$= 4 \times \frac{\sqrt{3}}{2}$$
  $= 4 \times \frac{1}{2}$ 

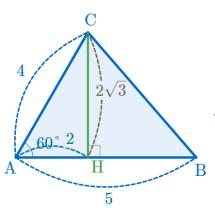


$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

$$\overline{CH} = 4\sin 60^{\circ} \qquad \overline{AH} = 4\cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3} \qquad \therefore \overline{AH} = 2$$

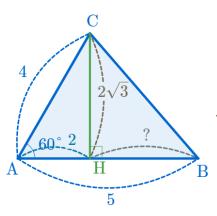


$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4} \qquad \cos 60^{\circ} = \frac{\overline{\text{AH}}}{4}$$

$$\overline{\text{CH}} = 4 \sin 60^{\circ} \qquad \overline{\text{AH}} = 4 \cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{\text{CH}} = 2\sqrt{3} \qquad \therefore \overline{\text{AH}} = 2$$

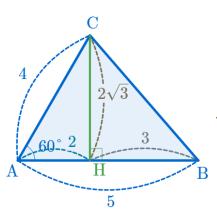


$$\sin 60^{\circ} = \frac{\overline{\text{CH}}}{4} \qquad \cos 60^{\circ} = \frac{\overline{\text{AH}}}{4}$$

$$\overline{\text{CH}} = 4 \sin 60^{\circ} \qquad \overline{\text{AH}} = 4 \cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{\text{CH}} = 2\sqrt{3} \qquad \therefore \overline{\text{AH}} = 2$$

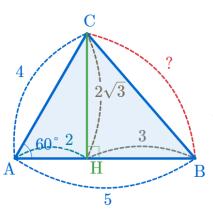


$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

$$\overline{CH} = 4 \sin 60^{\circ} \qquad \overline{AH} = 4 \cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3} \qquad \therefore \overline{AH} = 2$$

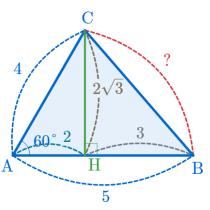


$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

$$\overline{CH} = 4\sin 60^{\circ} \qquad \overline{AH} = 4\cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3} \qquad \therefore \overline{AH} = 2$$



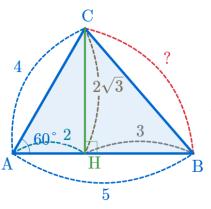
$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

$$\overline{CH} = 4 \sin 60^{\circ} \qquad \overline{AH} = 4 \cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3} \qquad \therefore \overline{AH} = 2$$

$$\overline{BC}^{2}$$



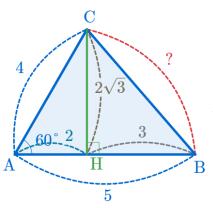
$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

$$\overline{CH} = 4\sin 60^{\circ} \qquad \overline{AH} = 4\cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3} \qquad \therefore \overline{AH} = 2$$

$$\overline{BC}^{2} = \left(2\sqrt{3}\right)^{2} + 3^{2}$$



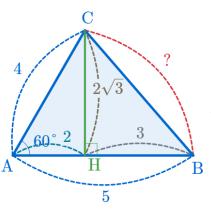
$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

$$\overline{CH} = 4\sin 60^{\circ} \qquad \overline{AH} = 4\cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3} \qquad \therefore \overline{AH} = 2$$

$$\overline{BC}^{2} = (2\sqrt{3})^{2} + 3^{2} = 12 + 9$$



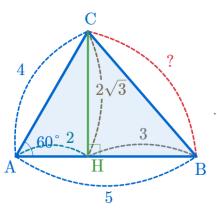
$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

$$\overline{CH} = 4 \sin 60^{\circ} \qquad \overline{AH} = 4 \cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3} \qquad \therefore \overline{AH} = 2$$

$$\overline{BC}^{2} = (2\sqrt{3})^{2} + 3^{2} = 12 + 9 = 21$$



$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

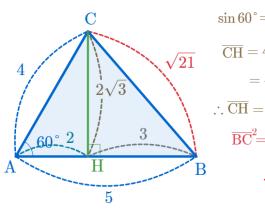
$$\overline{CH} = 4\sin 60^{\circ} \qquad \overline{AH} = 4\cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3} \qquad \therefore \overline{AH} = 2$$

$$\overline{BC}^{2} = (2\sqrt{3})^{2} + 3^{2} = 12 + 9 = 21$$

$$\therefore \overline{BC} = \sqrt{21}$$



$$\sin 60^{\circ} = \frac{\overline{CH}}{4} \qquad \cos 60^{\circ} = \frac{\overline{AH}}{4}$$

$$\overline{CH} = 4\sin 60^{\circ} \qquad \overline{AH} = 4\cos 60^{\circ}$$

$$= 4 \times \frac{\sqrt{3}}{2} \qquad = 4 \times \frac{1}{2}$$

$$\therefore \overline{CH} = 2\sqrt{3} \qquad \therefore \overline{AH} = 2$$

$$\overline{BC}^{2} = (2\sqrt{3})^{2} + 3^{2} = 12 + 9 = 21$$

$$\therefore \overline{BC} = \sqrt{21}$$

#### Github:

https://min7014.github.io/math20200126001.html

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