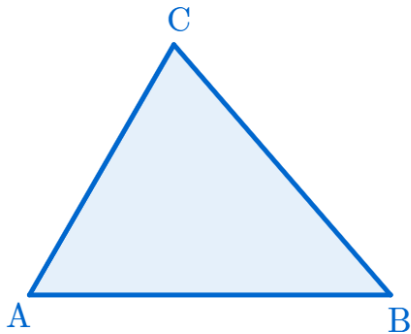


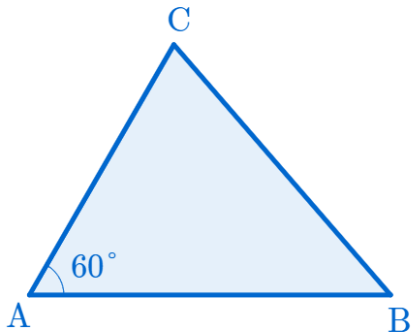
삼각비의 활용( $\overline{AB} = 5, \overline{AC} = 4,$   
 $\angle A = 60^\circ$ )

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

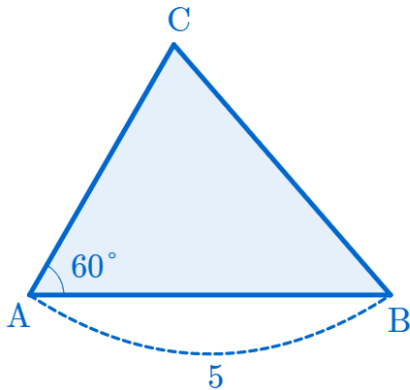
삼각비의 활용( $\overline{AB} = 5$ ,  $\overline{AC} = 4$ ,  $\angle A = 60^\circ$ )



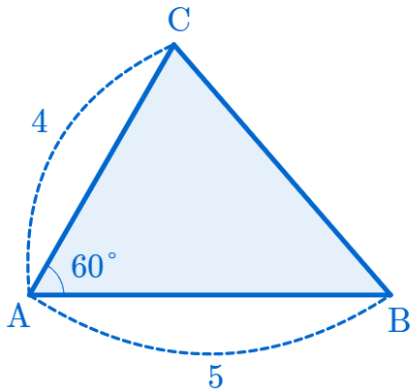
삼각비의 활용( $\overline{AB} = 5$ ,  $\overline{AC} = 4$ ,  $\angle A = 60^\circ$ )



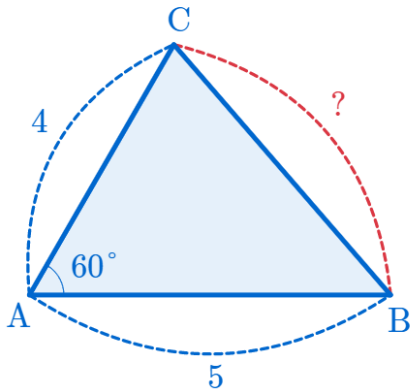
삼각비의 활용( $\overline{AB} = 5$ ,  $\overline{AC} = 4$ ,  $\angle A = 60^\circ$ )



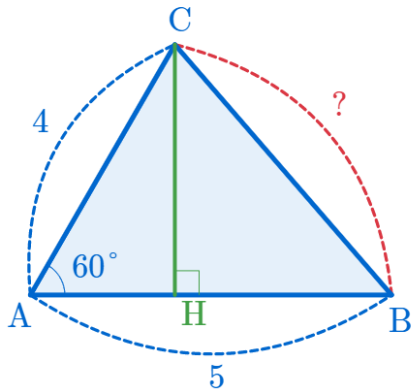
삼각비의 활용( $\overline{AB} = 5$ ,  $\overline{AC} = 4$ ,  $\angle A = 60^\circ$ )



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

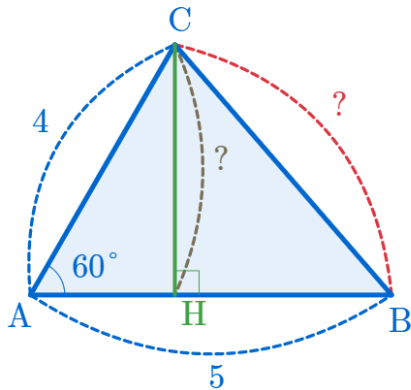


삼각비의 활용( $\overline{AB} = 5$ ,  $\overline{AC} = 4$ ,  $\angle A = 60^\circ$ )

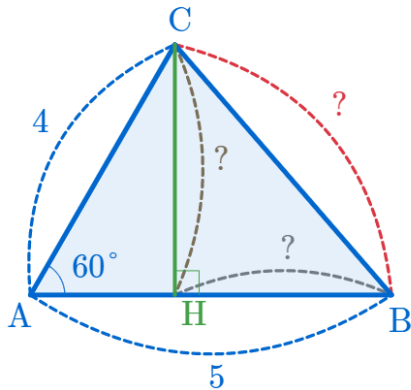




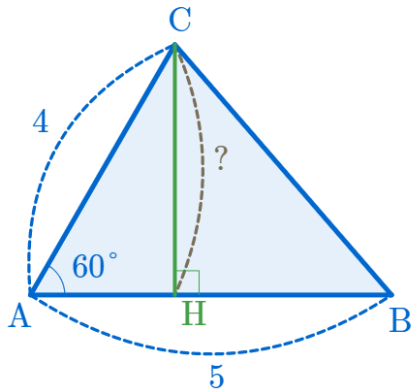
삼각비의 활용( $\overline{AB} = 5$ ,  $\overline{AC} = 4$ ,  $\angle A = 60^\circ$ )



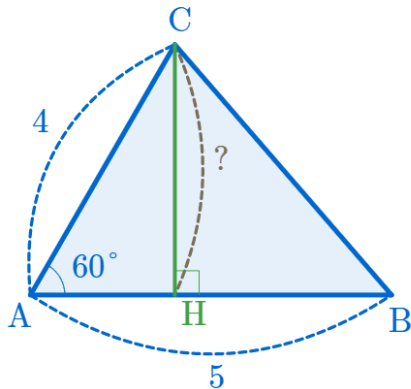
삼각비의 활용( $\overline{AB} = 5$ ,  $\overline{AC} = 4$ ,  $\angle A = 60^\circ$ )



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

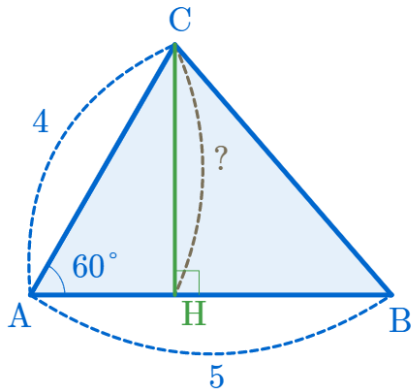


삼각비의 활용( $\overline{AB} = 5$ ,  $\overline{AC} = 4$ ,  $\angle A = 60^\circ$ )

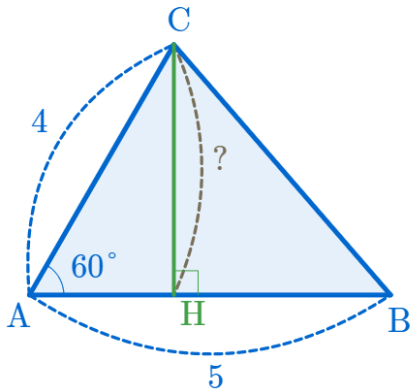


$\sin 60^\circ$

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



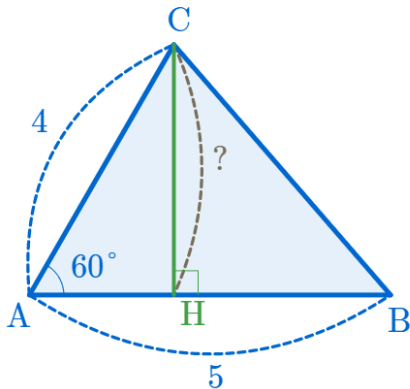
$$\sin 60^\circ = \frac{\overline{CH}}{4}$$

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

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

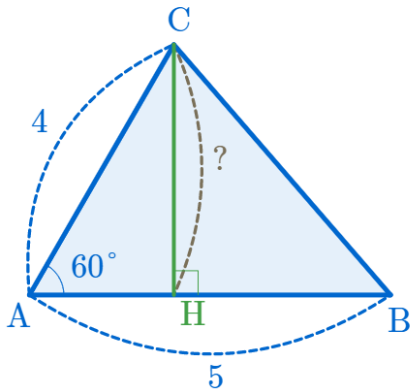
 $\overline{\text{CH}}$

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



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

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

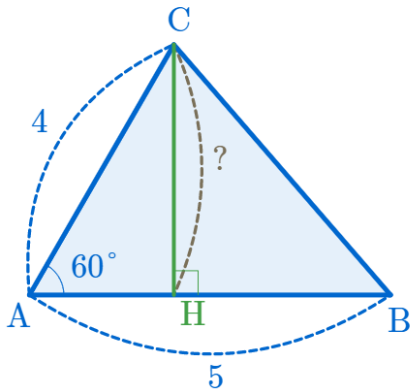
삼각비의 활용( $\overline{AB} = 5, \overline{AC} = 4, \angle A = 60^\circ$ )

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

$$\begin{aligned}\overline{\text{CH}} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$



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

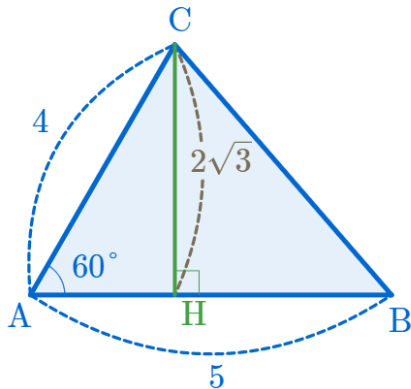


$$\sin 60^\circ = \frac{\overline{CH}}{4}$$

$$\begin{aligned}\overline{CH} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

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

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

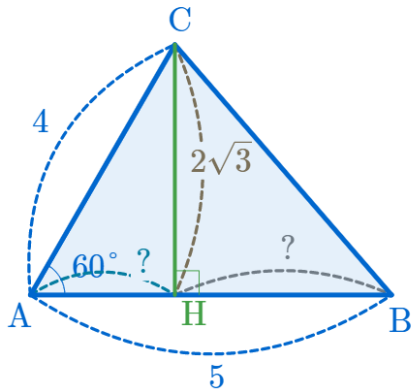


$$\sin 60^\circ = \frac{\overline{CH}}{4}$$

$$\begin{aligned}\overline{CH} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

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



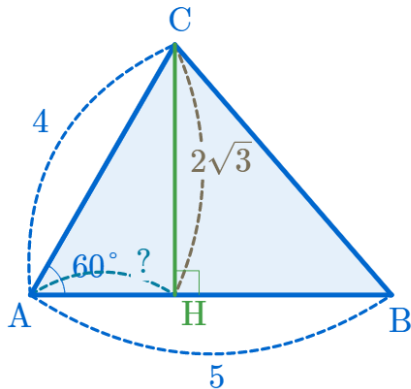
삼각비의 활용( $\overline{AB} = 5, \overline{AC} = 4, \angle A = 60^\circ$ )

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

$$\begin{aligned}\overline{\text{CH}} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

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

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

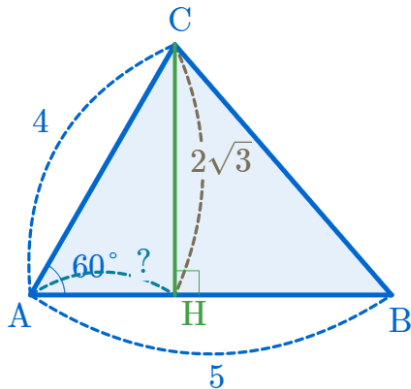


$$\sin 60^\circ = \frac{\overline{CH}}{4}$$

$$\begin{aligned}\overline{CH} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

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

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

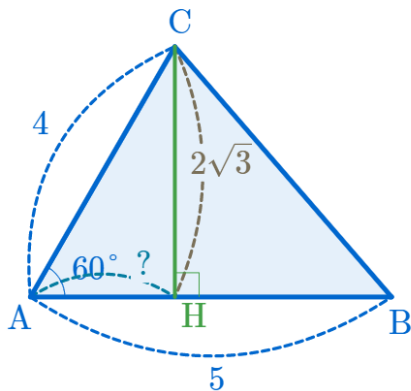


$$\sin 60^\circ = \frac{\overline{CH}}{4} \quad \cos 60^\circ$$

$$\begin{aligned}\overline{CH} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

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

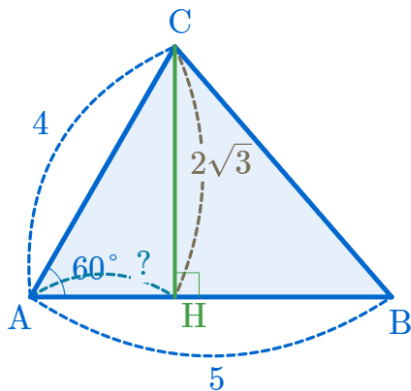
삼각비의 활용( $\overline{AB} = 5$ ,  $\overline{AC} = 4$ ,  $\angle A = 60^\circ$ )



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

$$\begin{aligned}\overline{CH} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2} \\ \therefore \overline{CH} &= 2\sqrt{3}\end{aligned}$$

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

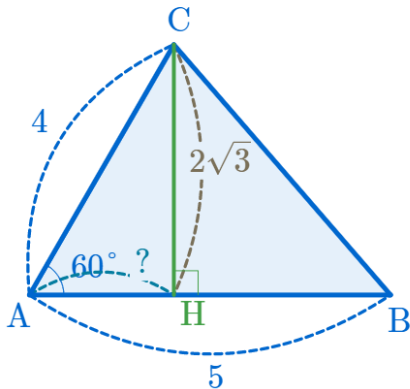


$$\sin 60^\circ = \frac{\overline{CH}}{4} \quad \cos 60^\circ = \frac{\overline{AH}}{4}$$

$$\begin{aligned} \overline{CH} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2} \end{aligned}$$

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



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

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

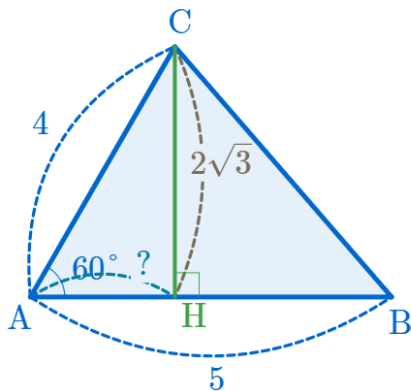
$$\cos 60^\circ = \frac{\overline{AH}}{4}$$

$$\begin{aligned}\overline{\text{CH}} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

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

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

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



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

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

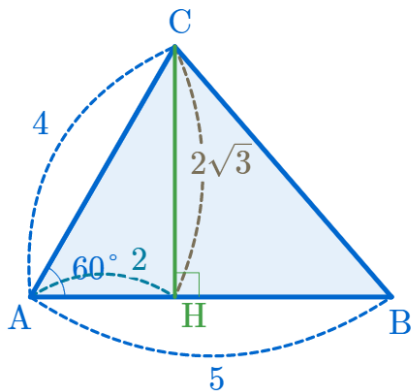
$$\begin{aligned}\overline{CH} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

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

$$\begin{aligned}\overline{AH} &= 4 \cos 60^\circ \\ &= 4 \times \frac{1}{2}\end{aligned}$$



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



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

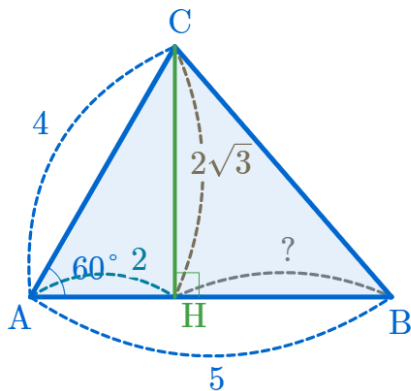
$$\cos 60^\circ = \frac{\overline{AH}}{4}$$

$$\begin{aligned}\overline{CH} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

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

$$\begin{aligned}\overline{AH} &= 4 \cos 60^\circ \\ &= 4 \times \frac{1}{2}\end{aligned}$$

$$\therefore \overline{AH} = 2$$

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

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

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

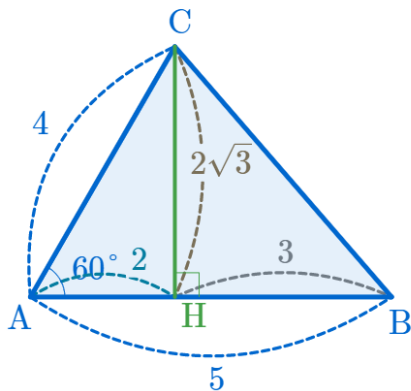
$$\begin{aligned}\overline{\text{CH}} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

$$\begin{aligned}\overline{\text{AH}} &= 4 \cos 60^\circ \\ &= 4 \times \frac{1}{2}\end{aligned}$$

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

$$\therefore \overline{AH} = 2$$

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



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

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

$$\begin{aligned}\overline{CH} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

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

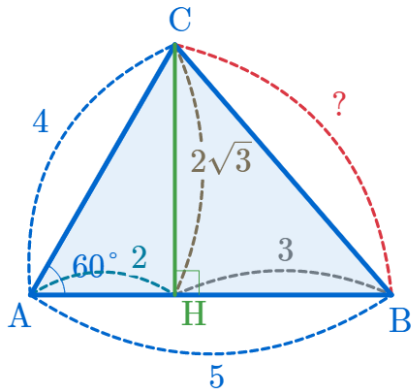
$$\begin{aligned}\overline{AH} &= 4 \cos 60^\circ \\ &= 4 \times \frac{1}{2}\end{aligned}$$

$$\therefore \overline{AH} = 2$$







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

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

$$\begin{aligned}\overline{\text{CH}} &= 4 \sin 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2}\end{aligned}$$

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

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

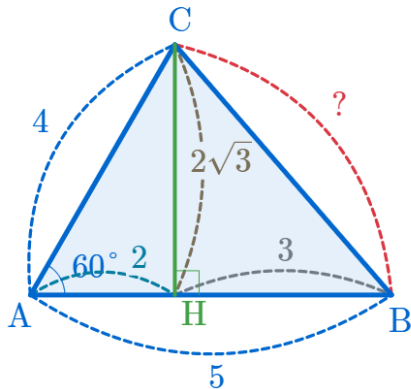
$$\begin{aligned}\overline{\text{AH}} &= 4 \cos 60^\circ \\ &= 4 \times \frac{1}{2}\end{aligned}$$

$$\therefore \overline{AH} = 2$$

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





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

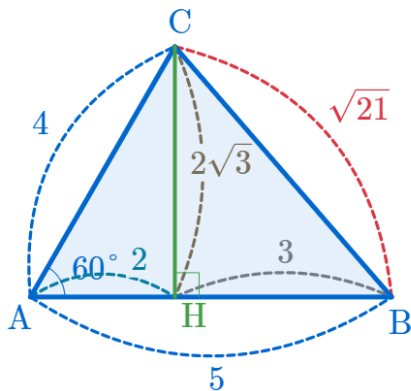
$$\sin 60^\circ = \frac{\overline{\text{CH}}}{4} \qquad \cos 60^\circ = \frac{\overline{\text{AH}}}{4}$$

$$\begin{aligned}\overline{\text{CH}} &= 4 \sin 60^\circ & \overline{\text{AH}} &= 4 \cos 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2} & &= 4 \times \frac{1}{2}\end{aligned}$$

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

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

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

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

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

$$\begin{aligned}\overline{\text{CH}} &= 4 \sin 60^\circ & \overline{\text{AH}} &= 4 \cos 60^\circ \\ &= 4 \times \frac{\sqrt{3}}{2} & &= 4 \times \frac{1}{2}\end{aligned}$$

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

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

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