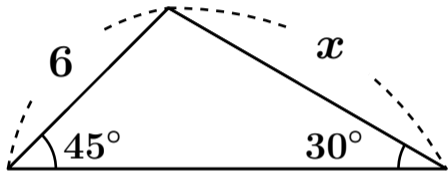


正弦定理

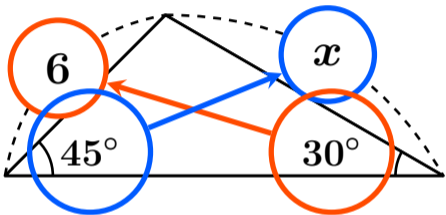
$$\frac{\text{角度の向かいの辺}}{\sin \text{角度}} = \frac{\text{角度の向かいの辺}}{\sin \text{角度}}$$

『角度』と『向かいの辺』をペアにする

辺 x の長さを求めなさい



辺 x の長さを求めなさい



$$\frac{x}{\sin 45^\circ} = \frac{6}{\sin 30^\circ}$$

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$$\frac{x}{\sin 45^\circ} = \frac{6}{\sin 30^\circ}$$

x を出すにはこれが邪魔

辺 x の長さを求めなさい

$$\sin 45^\circ \times \frac{x}{\sin 45^\circ} = \frac{6}{\sin 30^\circ} \times \sin 45^\circ$$

両辺に $\sin 45^\circ$ をかけ算する

辺 x の長さを求めなさい

$$\cancel{\sin 45^\circ} \times \frac{x}{\cancel{\sin 45^\circ}} = \frac{6}{\sin 30^\circ} \times \sin 45^\circ$$

辺 x の長さを求めなさい

$$\cancel{\sin 45^\circ} \times \frac{x}{\cancel{\sin 45^\circ}} = \frac{6}{\sin 30^\circ} \times \sin 45^\circ$$

$x =$ が計算できる

辺 x の長さを求めなさい

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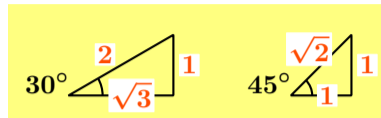
$$x = 6 \div \sin 30^\circ \times \sin 45^\circ$$

辺 x の長さを求めなさい

$$\frac{x}{\sin 45^\circ} = \frac{6}{\sin 30^\circ}$$

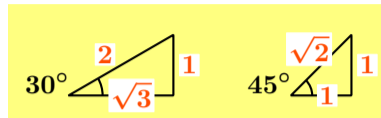
$$\sin 45^\circ \times \frac{x}{\sin 45^\circ} = \frac{6}{\sin 30^\circ} \times \sin 45^\circ$$

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辺 x の長さを求めなさい

$$\frac{x}{\sin 45^\circ} = \frac{6}{\sin 30^\circ}$$



$$\sin 45^\circ \times \frac{x}{\sin 45^\circ} = \frac{6}{\sin 30^\circ} \times \sin 45^\circ$$

$$\begin{aligned} x &= 6 \div \sin 30^\circ \times \sin 45^\circ \\ &= 6 \div \frac{1}{2} \times \frac{1}{\sqrt{2}} \end{aligned}$$

辺 x の長さを求めなさい

$$x = 6 \div \frac{1}{2} \times \frac{1}{\sqrt{2}}$$

辺 x の長さを求めなさい

$$\begin{aligned}x &= 6 \div \frac{1}{2} \times \frac{1}{\sqrt{2}} \\ &= 6 \times \frac{2}{1} \times \frac{1}{\sqrt{2}}\end{aligned}$$

辺 x の長さを求めなさい

$$\begin{aligned}x &= 6 \div \frac{1}{2} \times \frac{1}{\sqrt{2}} \\ &= 6 \times \frac{2}{1} \times \frac{1}{\sqrt{2}} \\ &= \frac{12}{\sqrt{2}}\end{aligned}$$

辺 x の長さを求めなさい

$$\begin{aligned}x &= 6 \div \frac{1}{2} \times \frac{1}{\sqrt{2}} \\ &= 6 \times \frac{2}{1} \times \frac{1}{\sqrt{2}} \\ &= \frac{12}{\sqrt{2}} = \frac{12 \times \sqrt{2}}{\sqrt{2} \times \sqrt{2}}\end{aligned}$$

辺 x の長さを求めなさい

$$\begin{aligned}x &= 6 \div \frac{1}{2} \times \frac{1}{\sqrt{2}} \\&= 6 \times \frac{2}{1} \times \frac{1}{\sqrt{2}} \\&= \frac{12}{\sqrt{2}} = \frac{12 \times \sqrt{2}}{\sqrt{2} \times \sqrt{2}} = \frac{12\sqrt{2}}{2}\end{aligned}$$

辺 x の長さを求めなさい

$$\begin{aligned}x &= 6 \div \frac{1}{2} \times \frac{1}{\sqrt{2}} \\&= 6 \times \frac{2}{1} \times \frac{1}{\sqrt{2}} \\&= \frac{12}{\sqrt{2}} = \frac{12 \times \sqrt{2}}{\sqrt{2} \times \sqrt{2}} = \frac{12\sqrt{2}}{2} = 6\sqrt{2} \quad \boxed{\text{答}}\end{aligned}$$