三角形の面積 S

$$S = \frac{1}{2}bc\sin A = \frac{1}{2}ca\sin B = \frac{1}{2}ab\sin C$$

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$$S = \frac{1}{2}bc\sin A = \frac{1}{2}ca\sin B = \frac{1}{2}ab\sin C$$

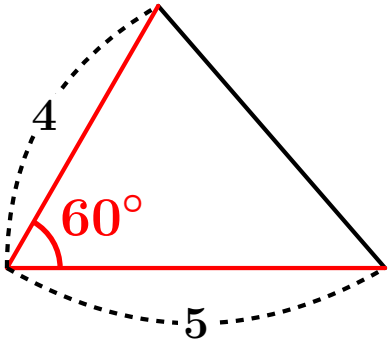
こんな公式は覚える必要なし！

三角形の面積 S

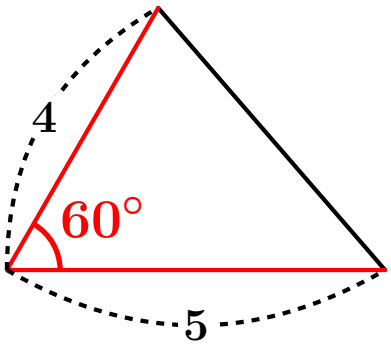
$$S = \frac{1}{2} \times \text{辺} \times \text{辺} \times \sin \text{間}^{\text{あいだ}}\text{の角度}$$

覚えるのはこれひとつ
こっちがわかりやすい（たぶん…）

三角形の面積 S はいくら？

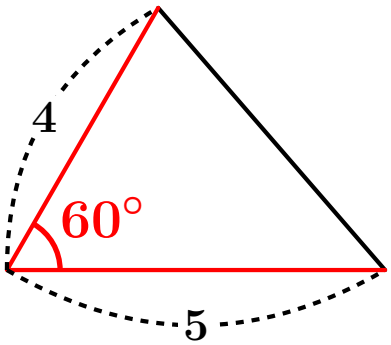


三角形の面積 S はいくら？



$$\frac{1}{2} \times 5 \times 4 \times \sin 60^\circ$$

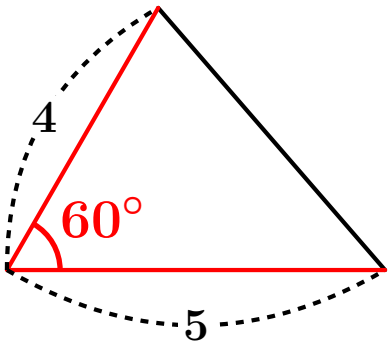
三角形の面積 S はいくら？



$$\frac{1}{2} \times 5 \times 4 \times \sin 60^\circ$$

$$= \frac{1}{2} \times 5 \times 4 \times \frac{\sqrt{3}}{2}$$

三角形の面積 S はいくら？

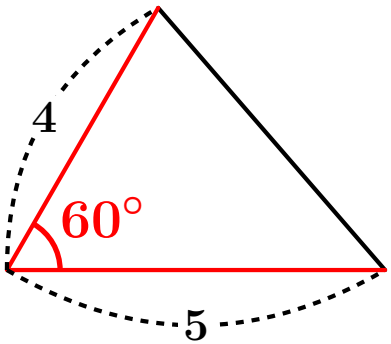


$$= \frac{1}{2} \times 5 \times 4 \times \sin 60^\circ$$

$$= \frac{1}{2} \times 5 \times 4 \times \frac{\sqrt{3}}{2}$$

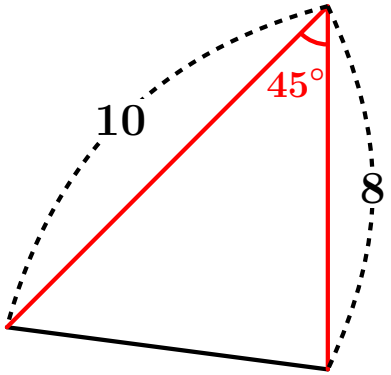
$$= \frac{1}{\cancel{2}} \times 5 \times \cancel{4} \times \frac{\sqrt{3}}{\cancel{2}}$$

三角形の面積 S はいくら？

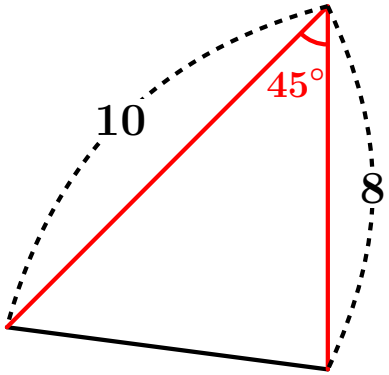


$$
\begin{aligned}
&\frac{1}{2} \times 5 \times 4 \times \sin 60^\circ \\
= &\frac{1}{2} \times 5 \times 4 \times \frac{\sqrt{3}}{2} \\
= &\frac{1}{\cancel{2}} \times 5 \times \cancel{4} \times \frac{\sqrt{3}}{\cancel{2}} \\
= &\ 5\sqrt{3}
\end{aligned}
$$

三角形の面積 S はいくら？

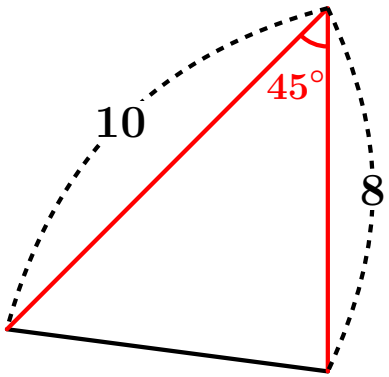


三角形の面積 S はいくら？



$$\frac{1}{2} \times 10 \times 8 \times \sin 45^\circ$$

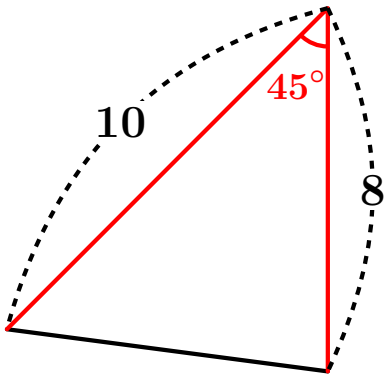
三角形の面積 S はいくら？



$$S = \frac{1}{2} \times 10 \times 8 \times \sin 45^\circ$$

$$= \frac{1}{2} \times 10 \times 8 \times \frac{1}{\sqrt{2}}$$

三角形の面積 S はいくら？

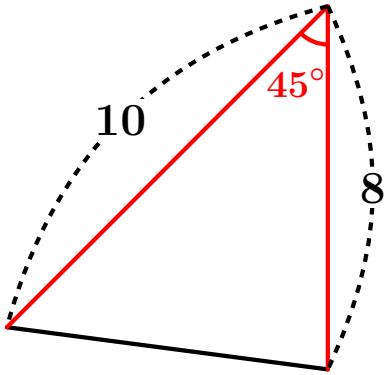


$$\frac{1}{2} \times 10 \times 8 \times \sin 45^\circ$$

$$= \frac{1}{2} \times 10 \times 8 \times \frac{1}{\sqrt{2}}$$

$$= \frac{40}{\sqrt{2}}$$

三角形の面積 S はいくら？

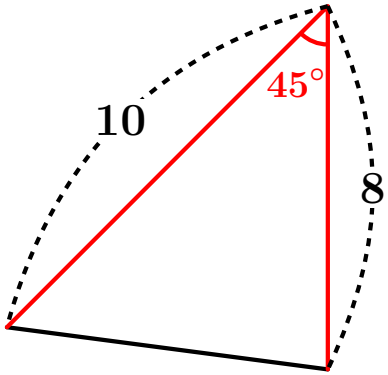


$$\frac{1}{2} \times 10 \times 8 \times \sin 45^\circ$$

$$= \frac{1}{2} \times 10 \times 8 \times \frac{1}{\sqrt{2}}$$

$$= \frac{40}{\sqrt{2}} = \frac{40 \times \sqrt{2}}{\sqrt{2} \times \sqrt{2}}$$

三角形の面積 S はいくら？

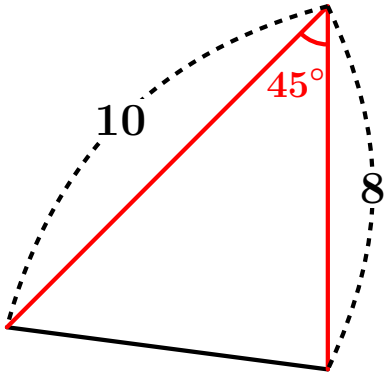


$$\frac{1}{2} \times 10 \times 8 \times \sin 45^\circ$$

$$= \frac{1}{2} \times 10 \times 8 \times \frac{1}{\sqrt{2}}$$

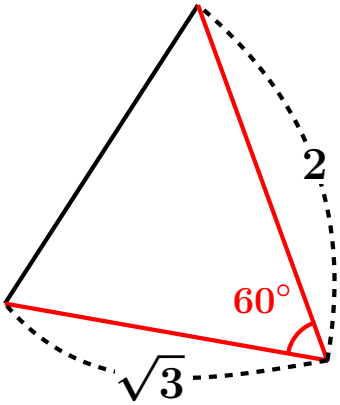
$$= \frac{40}{\sqrt{2}} = \frac{40 \times \sqrt{2}}{\sqrt{2} \times \sqrt{2}} = \frac{40\sqrt{2}}{2}$$

三角形の面積 S はいくら？

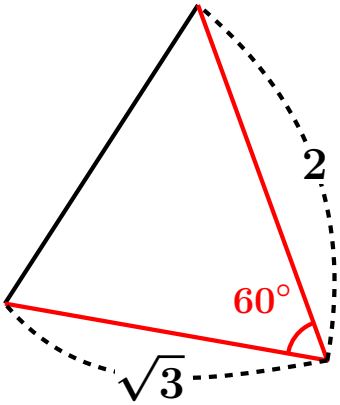


$$
\begin{aligned}
&\frac{1}{2} \times 10 \times 8 \times \sin 45^\circ \\
&= \frac{1}{2} \times 10 \times 8 \times \frac{1}{\sqrt{2}} \\
&= \frac{40}{\sqrt{2}} = \frac{40 \times \sqrt{2}}{\sqrt{2} \times \sqrt{2}} = \frac{40\sqrt{2}}{2} \\
&= 20\sqrt{2}
\end{aligned}
$$

三角形の面積 S はいくら？

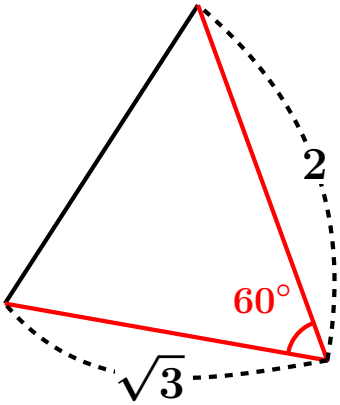


三角形の面積 S はいくら？



$$\frac{1}{2} \times \sqrt{3} \times 2 \times \sin 60^\circ$$

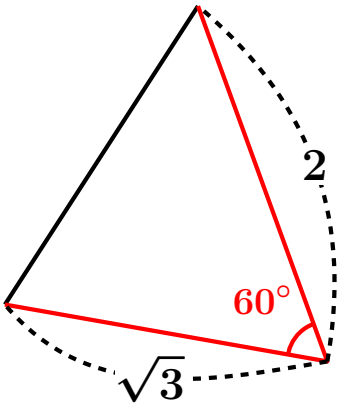
三角形の面積 S はいくら？



$$S = \frac{1}{2} \times \sqrt{3} \times 2 \times \sin 60^\circ$$

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

三角形の面積 S はいくら？

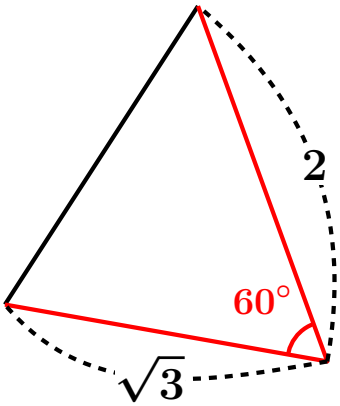


$$\frac{1}{2} \times \sqrt{3} \times 2 \times \sin 60^\circ$$

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

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

三角形の面積 S はいくら？



$$
\begin{aligned}
&\frac{1}{2} \times \sqrt{3} \times 2 \times \sin 60^\circ \\
= &\frac{1}{2} \times \sqrt{3} \times 2 \times \frac{\sqrt{3}}{2} \\
= &\frac{1}{2} \times \sqrt{3} \times \cancel{2} \times \frac{\sqrt{3}}{\cancel{2}} \\
= &\frac{3}{2}
\end{aligned}
$$

$(\sqrt{3}\times\sqrt{3}=3$ です$)$