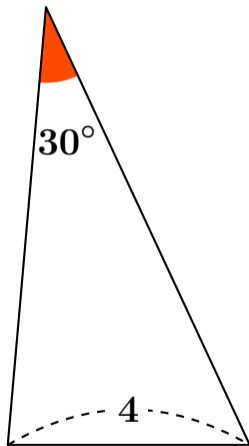


## 正弦定理 (外接円の半径 $R$ )

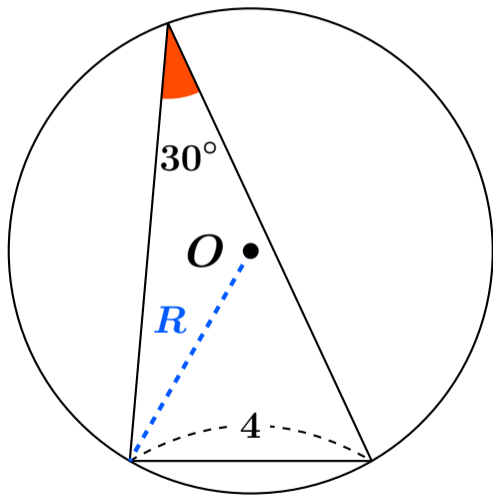
$$\frac{\text{角度の向かいの辺}}{\sin \text{角度}} = 2R$$

(ただし  $R$  は外接円の半径)

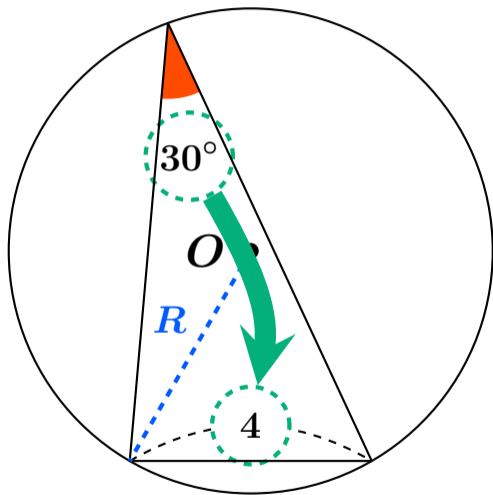
# 外接円の半径 $R$ を求めなさい



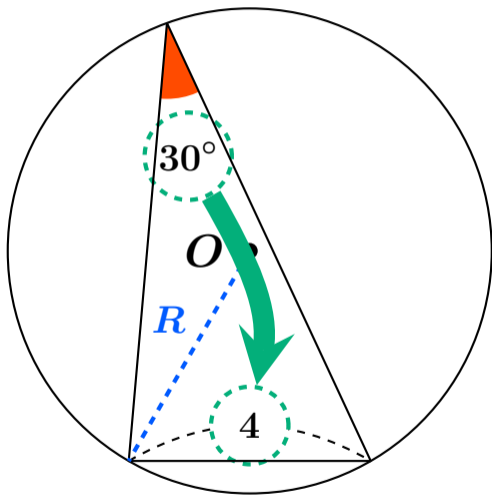
# 外接円の半径 $R$ を求めなさい



# 外接円の半径 $R$ を求めなさい



# 外接円の半径 $R$ を求めなさい



$$\frac{4}{\sin 30^\circ} = 2R$$

外接円の半径  $R$  を求めなさい

$$\frac{4}{\sin 30^\circ} = 2R$$

# 外接円の半径 $R$ を求めなさい

$$\frac{4}{\sin 30^\circ} = 2R$$

$$\frac{1}{2} \times \frac{4}{\sin 30^\circ} = 2R \times \frac{1}{2}$$

# 外接円の半径 $R$ を求めなさい

$$\frac{4}{\sin 30^\circ} = 2R$$

$$\frac{1}{2} \times \frac{4}{\sin 30^\circ} = 2R \times \frac{1}{2}$$

$$\frac{2}{\sin 30^\circ} = R$$



# 外接円の半径 $R$ を求めなさい

$$\frac{4}{\sin 30^\circ} = 2R$$

$$\frac{1}{2} \times \frac{4}{\sin 30^\circ} = 2R \times \frac{1}{2}$$

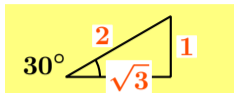
$$\frac{2}{\sin 30^\circ} = R$$

$$2 \div \sin 30^\circ = R$$

# 外接円の半径 $R$ を求めなさい

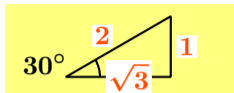
$$2 \div \sin 30^\circ = R$$

# 外接円の半径 $R$ を求めなさい



$$2 \div \sin 30^\circ = R$$

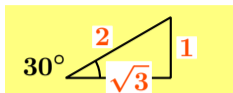
# 外接円の半径 $R$ を求めなさい



$$2 \div \sin 30^\circ = R$$

$$2 \div \frac{1}{2} = R$$

# 外接円の半径 $R$ を求めなさい

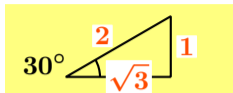


$$2 \div \sin 30^\circ = R$$

$$2 \div \frac{1}{2} = R$$

$$2 \times \frac{2}{1} = R$$

# 外接円の半径 $R$ を求めなさい



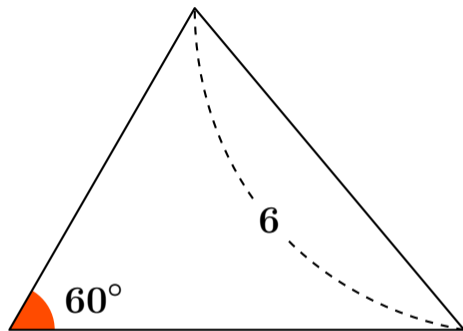
$$2 \div \sin 30^\circ = R$$

$$2 \div \frac{1}{2} = R$$

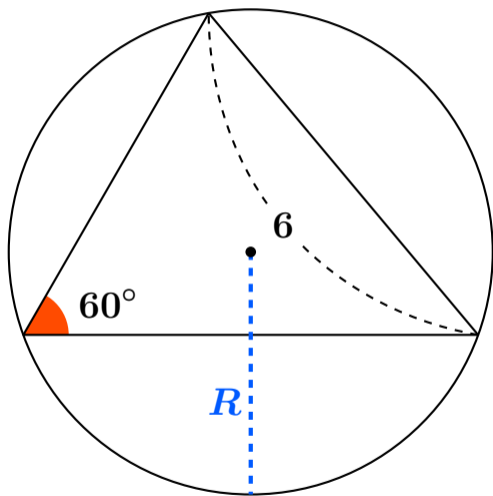
$$2 \times \frac{2}{1} = R$$

$$\boxed{\text{答}} \quad 4 = R$$

# 外接円の半径 $R$ を求めなさい

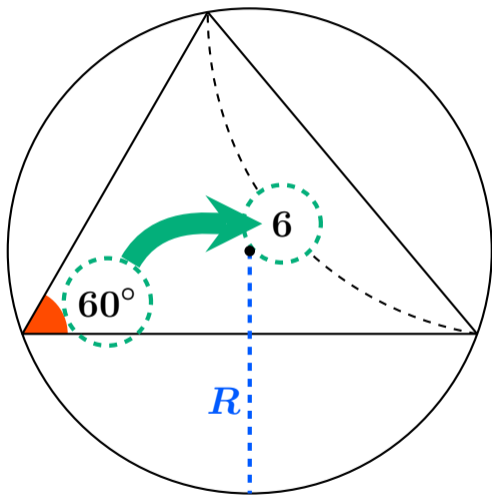


# 外接円の半径 $R$ を求めなさい

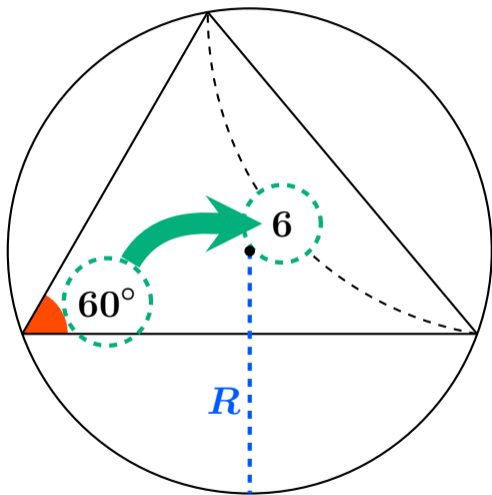




# 外接円の半径 $R$ を求めなさい



# 外接円の半径 $R$ を求めなさい



$$\frac{6}{\sin 60^\circ} = 2R$$

外接円の半径  $R$  を求めなさい

$$\frac{6}{\sin 60^\circ} = 2R$$

# 外接円の半径 $R$ を求めなさい

$$\frac{6}{\sin 60^\circ} = 2R$$

$$\frac{1}{2} \times \frac{6}{\sin 60^\circ} = 2R \times \frac{1}{2}$$

# 外接円の半径 $R$ を求めなさい

$$\frac{6}{\sin 60^\circ} = 2R$$

$$\frac{1}{2} \times \frac{6}{\sin 60^\circ} = 2R \times \frac{1}{2}$$

$$\frac{3}{\sin 60^\circ} = R$$

# 外接円の半径 $R$ を求めなさい

$$\frac{6}{\sin 60^\circ} = 2R$$

$$\frac{1}{2} \times \frac{6}{\sin 60^\circ} = 2R \times \frac{1}{2}$$

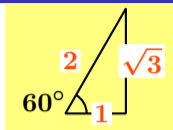
$$\frac{3}{\sin 60^\circ} = R$$

$$3 \div \sin 60^\circ = R$$

# 外接円の半径 $R$ を求めなさい

$$3 \div \sin 60^\circ = R$$

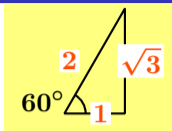
# 外接円の半径 $R$ を求めなさい



$$3 \div \sin 60^\circ = R$$



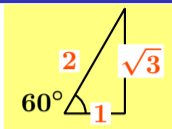
# 外接円の半径 $R$ を求めなさい



$$3 \div \sin 60^\circ = R$$

$$3 \div \frac{\sqrt{3}}{2} = R$$

# 外接円の半径 $R$ を求めなさい

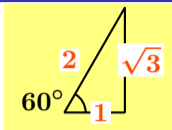


$$3 \div \sin 60^\circ = R$$

$$3 \div \frac{\sqrt{3}}{2} = R$$

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

# 外接円の半径 $R$ を求めなさい



$$3 \div \sin 60^\circ = R$$

$$3 \div \frac{\sqrt{3}}{2} = R$$

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

$$\frac{6}{\sqrt{3}} = R$$

外接円の半径  $R$  を求めなさい

$$\frac{6}{\sqrt{3}} = R$$

# 外接円の半径 $R$ を求めなさい

$$\frac{6}{\sqrt{3}} = R$$

$$\frac{6 \times \sqrt{3}}{\sqrt{3} \times \sqrt{3}} = R$$

# 外接円の半径 $R$ を求めなさい

$$\frac{6}{\sqrt{3}} = R$$

$$\frac{6 \times \sqrt{3}}{\sqrt{3} \times \sqrt{3}} = R$$

$$\frac{6\sqrt{3}}{3} = R$$

# 外接円の半径 $R$ を求めなさい

$$\frac{6}{\sqrt{3}} = R$$

$$\frac{6 \times \sqrt{3}}{\sqrt{3} \times \sqrt{3}} = R$$

$$\frac{6\sqrt{3}}{3} = R$$

$$\boxed{\text{答}} \quad 2\sqrt{3} = R$$