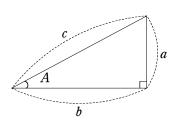
$$\sin A = \frac{a}{c}$$

$$\cos A = \frac{b}{c}$$





②【例題】図の直角三角形の三角比を求めよ。



$$\cos A = \frac{5}{\sqrt{29}}$$

$$\tan A = \frac{2}{5}$$

③【問題】下図の直角三角形の三角比を求めよ。

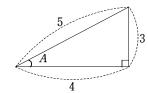
cosA=

cosA=

5

 $\sqrt{34}$ 

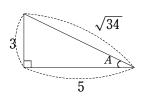
(1)



$$\sin A = \frac{3}{5}$$

$$tanA = \boxed{3}$$

(2)

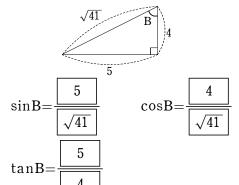


$$\sin A = \frac{3}{\sqrt{34}}$$

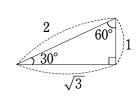
$$tanA = \boxed{3}$$

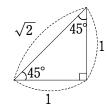
$$tanA = \frac{1}{5}$$

(3)



国図の直角三角形から、下の三角比を求めよ。



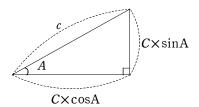


$$\sin 30^{\circ} = \frac{1}{2}$$
  $\sin 60^{\circ} = \frac{\sqrt{3}}{2}$   $\sin 45^{\circ} = \frac{1}{\sqrt{2}}$ 

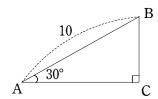
$$\cos 30^{\circ} = \frac{\sqrt{3}}{2} \cos 60^{\circ} = \frac{1}{2} \cos 45^{\circ} = \frac{1}{\sqrt{2}}$$

$$\tan 30^{\circ} = \frac{1}{\sqrt{3}} \tan 60^{\circ} = \sqrt{3} \tan 45^{\circ} = 1$$

⑤ 直角三角形において、*C*の長さと角度*A*がわかっていれば、下図のように他の辺の長さも求めることができる。



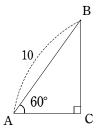
【例題】下図のBC,ACをそれぞれ求めよ。



$$BC = 10 \times \sin 30^{\circ} = 10 \times \frac{1}{2} = 5$$

$$AC = 10 \times \cos 30^{\circ} = 10 \times \frac{\sqrt{3}}{2} = 5\sqrt{3}$$

【問題】下図のBC,ACをそれぞれ求めよ。



$$BC = 10 \times \sin 60^{\circ} = 10 \times \frac{\sqrt{3}}{2} = 5\sqrt{3}$$

$$AC = 10 \times \cos 60^{\circ} = 10 \times \frac{1}{2} = 5$$

A, BC = 
$$5\sqrt{3}$$
 , AC = 5