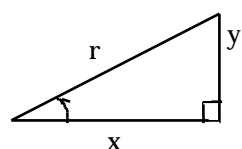


1. 三角比の定義を完成せよ。

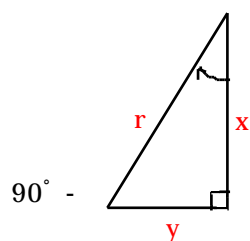


$$\sin = \frac{\quad}{\quad}$$

$$\cos = \frac{\quad}{\quad}$$

$$\tan = \frac{\quad}{\quad}$$

2. $90^\circ -$ の三角比を求めよ。



$$\sin(90^\circ -) = \frac{\quad}{\quad}$$

$$\cos(90^\circ -) = \frac{\quad}{\quad}$$

$$\tan(90^\circ -) = \frac{\quad}{\quad}$$

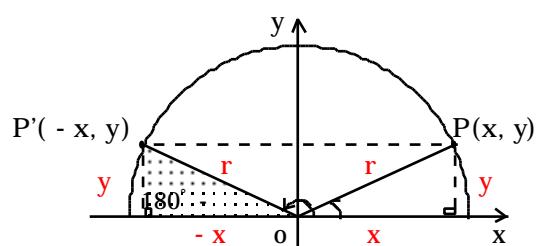
したがって

$$\sin(90^\circ -) = (\quad)$$

$$\cos(90^\circ -) = (\quad)$$

$$\tan(90^\circ -) = \frac{1}{(\quad)}$$

3. $180^\circ -$ の三角比を求めよ



$$\sin(180^\circ -) = \frac{\quad}{\quad} \quad \cos(180^\circ -) = \frac{\quad}{\quad}$$

$$\tan(180^\circ -) = \frac{\quad}{\quad}$$

$$\text{したがって} \quad \sin(180^\circ -) = (\quad)$$

$$\cos(180^\circ -) = (\quad)$$

$$\tan(180^\circ -) = (\quad)$$

4. 三角比の表を完成せよ。

	0°	30°	45°	60°	90°
\sin		$\frac{\quad}{2}$	$\frac{\quad}{2}$	$\frac{\quad}{2}$	
\cos		$\frac{\quad}{2}$	$\frac{\quad}{2}$	$\frac{\quad}{2}$	
\tan					

	90°	120°	135°	150°	180°
\sin		$\frac{\quad}{2}$	$\frac{\quad}{2}$	$\frac{\quad}{2}$	
\cos		$\frac{\quad}{2}$	$\frac{\quad}{2}$	$\frac{\quad}{2}$	
\tan					

5. 次の三角比を 45° 以下の角で表せ。

(1) $\sin 60^\circ$

(2) $\cos 60^\circ$

(3) $\tan 60^\circ$

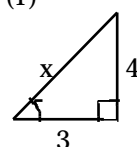
(4) $\tan 135^\circ$

(5) $\sin 150^\circ$

(6) $\cos 120^\circ$

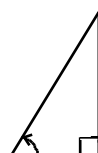
6. 次の三角形の三角比を求めなさい。 ($0^\circ < \quad < 180^\circ$)

(1)



$$\sin = \frac{\quad}{\quad} \quad \cos = \frac{\quad}{\quad} \quad \tan = \frac{\quad}{\quad}$$

(2) $\cos = \frac{1}{2}$ のとき



$$\sin = \frac{\quad}{\quad} \quad \tan = \frac{\quad}{\quad}$$

(3) $\sin = \frac{24}{25}$ のとき



$0^\circ < \quad < 90^\circ$ のとき $\cos = \frac{\quad}{\quad}$ $\tan = \frac{\quad}{\quad}$

$90^\circ < \quad < 180^\circ$ のとき $\cos = \frac{\quad}{\quad}$ $\tan = \frac{\quad}{\quad}$