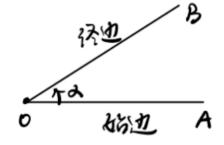
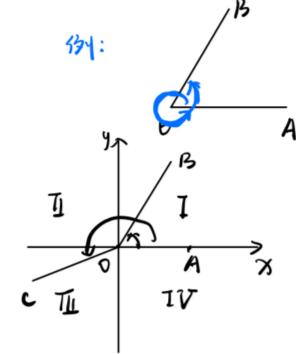


三角边数

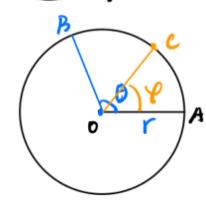






470 5 FO 1/2 17 12 A

2. 狐隆机



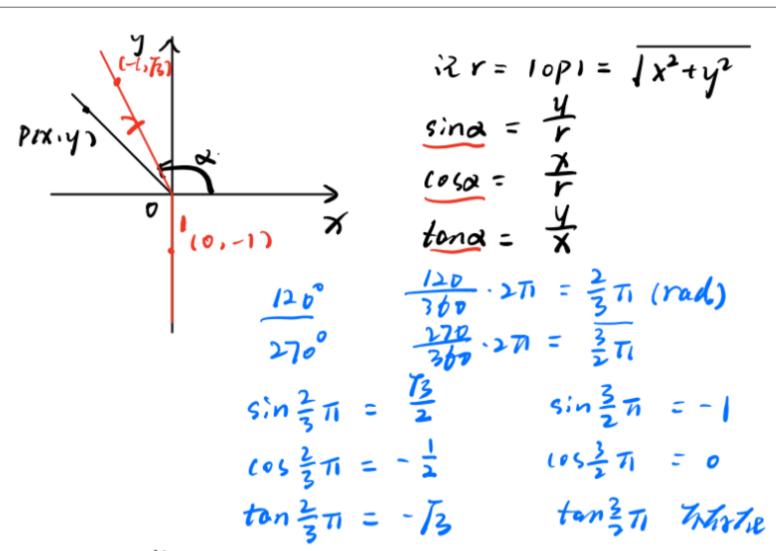
弧度制定义就是 半径为1的圆中该角 所对的弧长

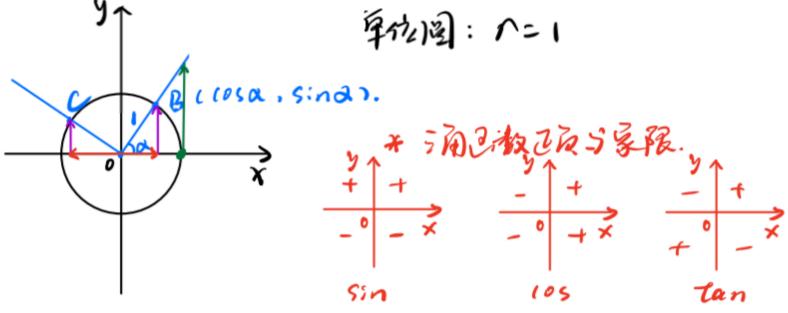
r·d = L 经 弧度 3m天

1 rad ~ 57°

面核环境排 360' = $\frac{271r}{r}$ rad = 271 rad

面发n°,3分度是x rad,有 $\frac{n}{360} = \frac{x}{211}$

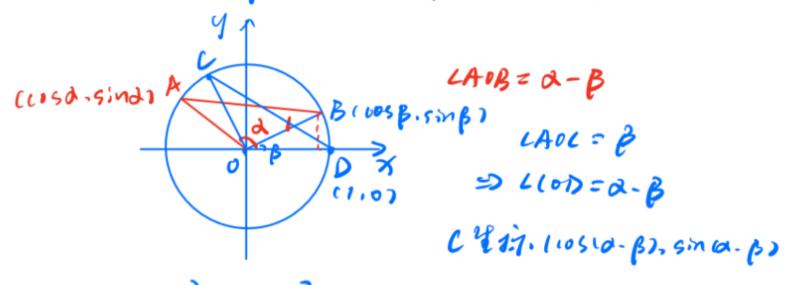




例:
$$\cos (d + \frac{1094317}{2}\pi)$$

= $\cos (d + \frac{1}{2}\pi) = -\sin d$
其中《角如布因

は、含角公式 α.β 行資隔,有



$$(BS(A-B) = (BSA(BSB + SindsinB))$$

$$(BS(A+B) = (BS(A+E-B))$$

$$\sqrt{\sin(\alpha+\beta)} = \cos(\frac{\pi}{2}-\alpha) - \beta$$

$$= \cos(\frac{\pi}{2}-\alpha)\cos\beta + \sin(\frac{\pi}{2}-\alpha)\sin\beta$$

$$= \sin\alpha\cos\beta + \cos\alpha\sin\beta$$

$$\sin(\alpha-\beta) = \sin\alpha\cos\beta - \cos\alpha\sin\beta$$

$$\sin(\alpha-\beta) = \sin\alpha\cos\beta - \cos\alpha\sin\beta$$

$$\cos(\alpha-\beta) = \cos(\alpha-\beta) = \cos\alpha\cos\beta$$

$$\cos(\alpha-\beta) = \cos(\alpha-\beta) = \sin\alpha\cos\beta$$

$$\tan(\alpha+\beta) = \frac{\sin\alpha+\beta}{(\cos(\alpha+\beta))} = \frac{\sin\alpha\cos\beta+\cos\alpha\sin\beta}{\cos\alpha\cos\beta+\sin\alpha\sin\beta}$$

$$\frac{1}{2} = \frac{\sin\alpha+\beta}{1 - \tan\alpha+\beta}$$

$$= \frac{\tan\alpha+\beta}{1 - \tan\alpha+\beta}$$

$$= \frac{\tan\alpha+\beta}{1 - \tan\alpha+\beta}$$

例 61. 已知集合 $A = \{\alpha \mid \alpha = k \cdot 180^\circ \pm 45^\circ, k \in \mathbb{Z}\}$, 集合 $B = \{\beta \mid \beta = k \cdot 90^\circ + 45^\circ, k \in \mathbb{Z}\}$, 则 A 与 B 的关系正确的是 ()

A. $A \subseteq B$

B. $B \subsetneq A$

C. A = B

D. A, B 之间没有包含关系

例 62. 已知角 α 的终边经过 P(1,2),则 $\tan \alpha \cdot \cos \alpha$ 等于 $\frac{2}{1}$ $\int_{-\infty}^{\infty}$

例 63. 化简
$$\frac{\sin\left(-\alpha - \frac{3\pi}{2}\right)\sin\left(\frac{3\pi}{2} - \alpha\right)\tan^2(2\pi - \alpha)}{\cos\left(\frac{\pi}{2} - \alpha\right)\cos\left(\frac{\pi}{2} + \alpha\right)\cos^2(\pi - \alpha)}.$$

例
$$64$$
. ① $\sin 34^{\circ} \sin 26^{\circ} - \cos 34^{\circ} \cos 26^{\circ} =$ _____

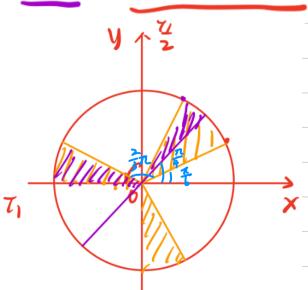
$$2 \sin 47^{\circ} \cos 17^{\circ} + \cos 47^{\circ} \cos 107^{\circ} =$$
_____.

例 65. 化简式子
$$\frac{\sqrt{1-\sin 20^{\circ}}}{\sin 10^{\circ} - \frac{\sqrt{2}}{2}\sqrt{1+\cos 20^{\circ}}}.$$

解: 慢 d=10° -- 原計=
$$\sqrt{1-2\sin\alpha}\cos\alpha$$

 $\sin\alpha - \frac{52}{2}\sqrt{1+\cos^2\alpha - \sin^2\alpha}$
 $= \sqrt{\sin^2\alpha + \cos^2\alpha - 2\sin\alpha\cos\alpha}$
 $\sin\alpha - \frac{52}{2}\sqrt{2\cos^2\alpha}$

例 66. 已知 $\sin 3x > 0$, $\cos 3x < 0$, 且 $\sin x > \cos x$, 则 x 的取值范围为_



论过点 (a,b), :: sin x > cos x .. 牛 > 年 .. 在y=7上名

例 68. 已知 $f(x) = \frac{\sin x \cdot \cos x}{2 + \sin x + \cos x}$,则 f(x)的最小值为_____.

解: $\sin x \cos x = \frac{1}{2} [(\sin x + \cos x)^2 - 1]$ 股 $\sin x + \cos x = \frac{1}{2}$ $\therefore f(x) = \frac{t^2-1}{2(2t+1)} = \frac{1}{2}(t+2) + \frac{1}{2}(x+2) = 2\sqrt{3} - 2$

$$= \frac{\sin \alpha + \sin \beta}{2 \sin \alpha + \beta} + \frac{\alpha - \beta}{2} + \frac{\sin \alpha + \beta}{2} - \frac{\alpha - \beta}{2} >$$

$$= 2 \sin \alpha + \beta \cos \alpha - \beta$$

$$= 2 \sin \alpha + \beta \cos \alpha - \beta$$

$$= 2 \sin \alpha + \beta \cos \alpha - \beta$$

$$= 2 \sin \alpha + \beta \cos \alpha - \beta$$

$$= 2 \sin \alpha + \beta \cos \alpha - \beta$$

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$$= 2 \sin \alpha + \beta \cos \alpha - \beta$$

$$= 2 \sin \alpha + \beta \cos \alpha - \beta$$

$$= 2 \sin \alpha + \beta \cos \alpha - \beta$$

$$= 2 \sin \alpha + \beta \cos \alpha - \beta$$

$$= 2 \sin \alpha + \beta \cos \alpha - \beta \cos \alpha - \beta$$

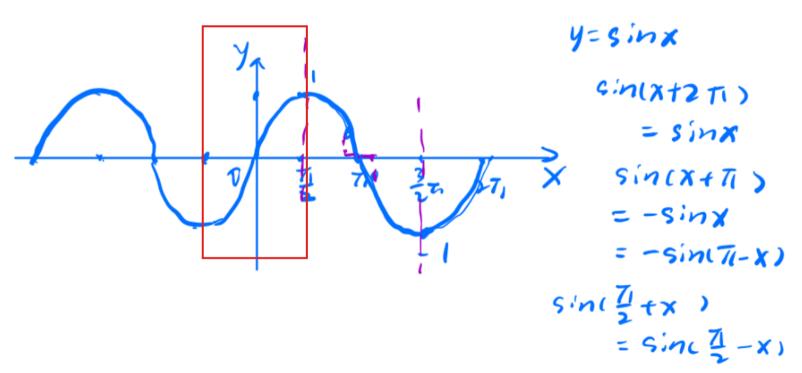
$$= 2 \sin \alpha + \beta \cos \alpha + \beta \cos \alpha - \beta$$

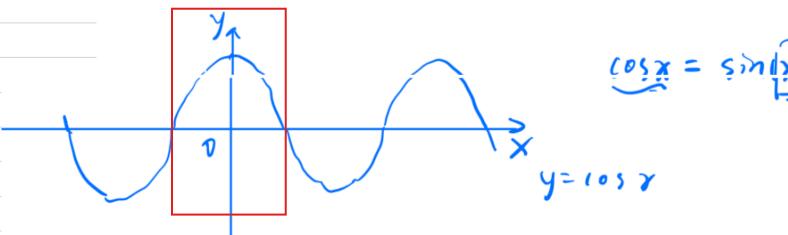
$$= 2 \sin \alpha + \beta \cos \alpha + \beta \cos \alpha - \beta \cos \alpha - \beta$$

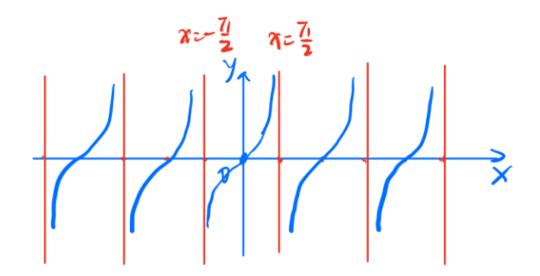
$$= 2 \sin \alpha + \beta \cos \alpha + \beta \cos \alpha + \beta \cos \alpha - \beta \cos \alpha -$$

7-37/2 Dirichlet 2.12

y= 4inx , y=105x , y= tonx







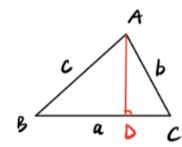
y = tan x $x = \frac{n}{2} + k\pi \cdot k + \frac{n}{2} \cdot k + \frac{n}{2$

FEXTE A SINIWX + 47

SINX -> SINWX -> A SINWX -> A SINW(X+1/2)).

两三面水

1. 余弦定理



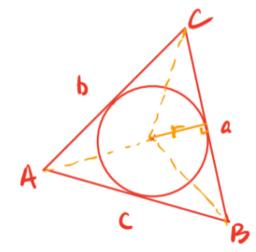
ATITA

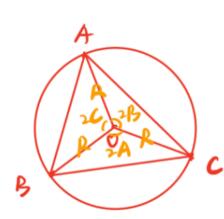
2. 直线通道。 AABC中、前A.B.C所对边部1 327 a.b.C. AABC的引播图

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = 2R$$

$$\frac{c}{\sin c} = 2R \implies \sin c = \frac{c}{2R}$$

$$= \frac{abC}{uR}$$





の (i) 行行公式)
$$\triangle ABC$$
 は , A.B. C 所対した $\Rightarrow a.b.$ に \Rightarrow

$$tan(A+B) = -tanC$$

$$sin \frac{A+B}{2} = cos \frac{C}{2}$$

$$cos \frac{A+B}{2} = sin \frac{C}{2}$$

Tana tang tang tang tang tang tang tang = 1

织化物差别 和美比我

$$sin A sin B = \frac{1}{2} cos (A-B) - \frac{1}{2} cos (A+B)$$
 $cos A cos B = \frac{1}{2} cos (A-B) + \frac{1}{2} cos (A+B)$
 $sin A cos B = \frac{1}{2} sin (A-B) + \frac{1}{2} sin (A+B)$
 $sin A + sin B = 2 sin \frac{1}{2} (A+B) cos \frac{1}{2} (A-B)$
 $sin A - sin B = 2 cos \frac{1}{2} (A+B) sin \frac{1}{2} (A-B)$
 $cos A + cos B = 2 cos \frac{1}{2} (A+B) cos \frac{1}{2} (A-B)$
 $cos A - cos B = -2 sin \frac{1}{2} (A+B) sin \frac{1}{2} (A-B)$