基础_三角函数

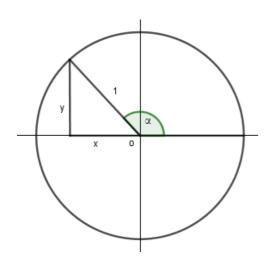
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$$1.\sin^2 x + \cos^2 x = 1$$

	锐角三角函数	任意角三角函数
图形	斜边c 对边a 邻边b C	A (X,y) 4 6 6 6 6 6 6 6 6 7 6 6 7 6 6
正弦 (sin)	$\sin A = \frac{a}{c}$	$\sin \theta = \frac{y}{r}$
余弦 (cos)	$\cos A = \frac{b}{c}$	$\cos\theta = \frac{x}{r}$
正切 (tan或tg)	$\tan A = \frac{a}{b}$	$\tan \theta = \frac{y}{x}$
余切(cot或ctg)	$\cot A = \frac{b}{a}$	$\cot \theta = \frac{x}{y}$
正割 (sec)	$\sec A = \frac{c}{b}$	$\sec \theta = \frac{r}{x}$
余割 (csc)	$\csc A = \frac{c}{a}$	csc θ 刑

- sec是与角度"相邻近"的左右两条边相比,斜边在分子上.即"斜边"比上"邻边".
- csc是 "斜边"比上"较远处的对边".

$1.\sin^2 x + \cos^2 x = 1$



根据勾股定理: $x^2 + y^2 = 1$

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