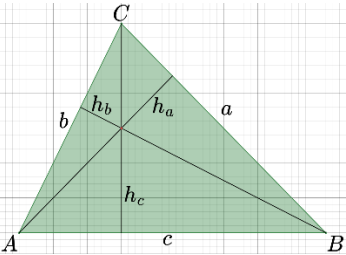
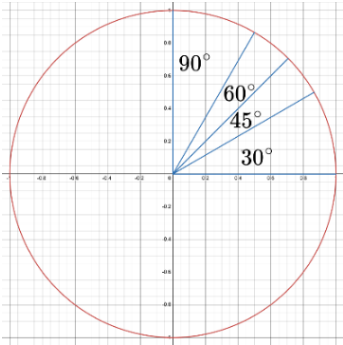




SOS		CAS		TOA	
$\sin x = \frac{\text{overstaande}}{\text{schuine}}$ $\csc x = \frac{\text{schuine}}{\text{overstaande}}$		$\cos x = \frac{\text{aanstaande}}{\text{schuine}}$ $\sec x = \frac{\text{schuine}}{\text{aanstaande}}$		$\tan x = \frac{\text{overstaande}}{\text{aanstaande}}$ $\cot x = \frac{\text{aanstaande}}{\text{overstaande}}$	
Basisidentiteiten $\sin^2 x + \cos^2 x = 1$ $1 + \tan^2 x = \frac{1}{\cos^2 x}$ $1 + \cot^2 x = \frac{1}{\sin^2 x}$		Reciproque relaties $\tan x = \frac{\sin x}{\cos x}$ $\cot x = \frac{\cos x}{\sin x}$ $\sec x = \frac{1}{\cos x}$ $\csc x = \frac{1}{\sin x}$		Co-functie identiteiten $\sin x = \cos\left(x - \frac{\pi}{2}\right)$ $\cos x = \sin\left(x + \frac{\pi}{2}\right)$ Eulers identiteit $e^{ix} = \cos x + i \sin x$	
Negatieve hoeken $\sin(-x) = -\sin x$ $\cos(-x) = \cos x$ $\tan(-x) = -\tan x$		Spiegel identiteiten $\sin(\pi + x) = -\sin x$ $\cos(\pi + x) = -\cos x$		Oppervlakte formules $A = \frac{1}{2} ab \sin C$ $A = \frac{1}{2} a \cdot h_a$	
Som/verschil formules $\sin(a \pm b) = \sin a \cos b \pm \cos a \sin b$ $\cos(a \pm b) = \cos a \cos b \mp \sin a \sin b$ $\tan(a \pm b) = \frac{\tan a \mp \tan b}{1 \mp \tan a \tan b}$		Product-som formules $\sin a \sin b = \frac{\cos(a - b) - \cos(a + b)}{2}$ $\cos a \cos b = \frac{\cos(a - b) + \cos(a + b)}{2}$ $\sin a \cos b = \frac{\sin(a + b) + \sin(a - b)}{2}$		Rad en ° $1 \text{ Rad} = \frac{180}{\pi}^\circ$ $1 \text{ Rad} \approx 57,3^\circ$	
Dubbele hoek formules $\sin 2x = 2 \sin x \cos x$ $\cos 2x = \cos^2 x - \sin^2 x$ $\tan 2x = \frac{2 \tan x}{1 - \tan^2 x}$		Halve hoek formules $\sin^2 \frac{x}{2} = \frac{1 - \cos x}{2}$ $\cos^2 \frac{x}{2} = \frac{1 + \cos x}{2}$ $\tan \frac{x}{2} = \frac{\sin x}{1 + \cos x}$		(co)tan en (co)sec $\sec^2 x - \tan^2 x = 1$ $\csc^2 x - \cot^2 x = 1$ $\tan x \sec x = \frac{\sin x}{\cos^2 x}$	
Sinus- en Cosinusregel $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = 2R$ $c^2 = a^2 + b^2 - 2ab \cos C$ $R = \text{straal omgesch. cirkel}$		Heron's formule $s = \frac{a + b + c}{2}$ $A = \sqrt{s(s - a)(s - b)(s - c)}$		Som/verschil formules $\sin a \pm \sin b = 2 \sin\left(\frac{a \pm b}{2}\right) \cos\left(\frac{a \mp b}{2}\right)$ $\cos a + \cos b = 2 \cos\left(\frac{a + b}{2}\right) \cos\left(\frac{a - b}{2}\right)$ $\cos a - \cos b = -2 \sin\left(\frac{a + b}{2}\right) \sin\left(\frac{a - b}{2}\right)$	
Euler formules $\sin x = \frac{e^{ix} - e^{-ix}}{2i}$ $\cos x = \frac{e^{ix} + e^{-ix}}{2}$		S = Semioomtrek $A = \text{Opp. } \Delta$			
Machts-reducerende formules $\sin^2 x = \frac{1 - \cos 2x}{2}$ $\cos^2 x = \frac{1 + \cos 2x}{2}$ $\tan^2 x = \frac{1 - \cos 2x}{1 + \cos 2x}$		De eenheidscirkel 		Inverse formules $\arcsin(\sin x) = x$ $-\frac{\pi}{2} \leq x \leq \frac{\pi}{2}$ $\arccos(\cos x) = x$ $0 \leq x \leq \pi$ $\arctan(\tan x) = x$ $-0,5\pi \leq x \leq 0,5\pi$	
De amplitude-fase formule $a \cos x + b \sin x = \text{sgn}(a) \sqrt{a^2 + b^2} \cos\left(x - \arctan\left(\frac{b}{a}\right)\right)$		Afgeleiden $\frac{d}{dx} \sin x = \cos x$ $\frac{d}{dx} \cos x = -\sin x$ $\frac{d}{dx} \tan x = \sec^2 x$		www.scire.nu	
$\frac{d}{dx} \cot x = -\csc^2 x$		$\frac{d}{dx} \sec x = \sec x \tan x$		$\frac{d}{dx} \csc x = -\cot x \csc x$	

