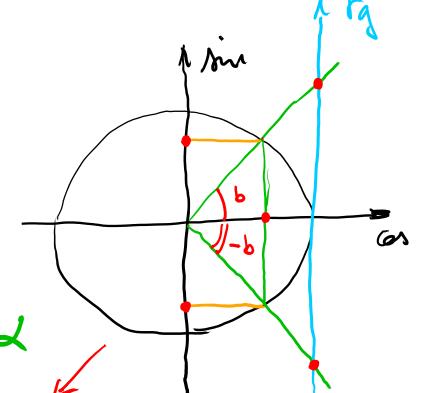
Gometrische formeles: Trucs en afleiducen Bogin met de t-formule voor $\frac{1}{4} \times \frac{2t}{1-t^2}$ met $t = \frac{1}{4} \left(\frac{x}{z} \right)$ $t_{q} \times 2 \frac{\sin x}{\cos x} = \frac{2t}{1-t^2} + de weener voor sin en an <math>t + t_q$ $\frac{2t}{1-t^2} = m \times 1$ $\frac{2t}{1+t^2} = \frac{1}{1+t^2}$ $\frac{1-t^2}{1+t^2} = \frac{1}{1+t^2}$ Stelm $d = \frac{x}{2} = 2d = x$ en $\log(\frac{x}{2}) = t = \log(d)$ $\Rightarrow tq(2x) = \frac{2tqx}{1-tq^2x}$ => sin (2x) = \frac{2tqx}{1 + tq^2d} $\Rightarrow cos(2d)_2 \frac{1-tq^2d}{1+tq^2d}$ Mer tad = tind coson $=) tq(2\alpha) = \frac{2 \frac{\sin \alpha}{\cos \alpha}}{1 - \frac{\sin^2 \alpha}{\cos^2 \alpha}} = \frac{2 \frac{\sin \alpha}{\cos^2 \alpha}}{\cos^2 \alpha} \cdot \frac{\cos^2 \alpha}{\cos^2 \alpha}$ => tq(ld) = $\frac{2 \sin \alpha \cos \alpha}{\cos^2 \alpha - \sin^2 \alpha}$ = $\frac{\sin(ld)}{\cos^2 \alpha - \sin^2 \alpha}$ / mi (2x) = 2 × mi contr, don cos = 2 mix cosx (os (2x) = cos evert, lighet ap cos²x+m²x=1 = cos²x-m²x



$$\int \sin(-b) = - \sin b$$

 $\int \cos(-b) = \cos b$
 $\int \cos(-b) = - \log b$

Suipson en omgeleerde tripson

A: sin (a+b) = sin a coob + sin b cosa

B: Mi (a-b) = Mi a cosb - Mi b cosa

C: cos (a+b) = cos a cosb - sia sib

D: cos (a-b) = cos a cosb + mia mb

$$\begin{cases} a+b = x \\ a-b = y \\ a = x + y \\ b = x + y \\ 2 \end{cases}$$

=) A+B $\sin(a+b) + \sin(a-b) = 2 \sin a \cos b$ $\sin(x) + \sin(y) = 2 \sin(\frac{x+y}{2}) \cos(\frac{x-y}{2})$

=) A-B $\sin(a+b) - \sin(a-b) = 2 \sin b \cos a$ $\sin(x) - \sin(y) = 2 \sin(\frac{x+y}{2}) \cos(\frac{x+y}{2})$

=) C+D (a+b) + (a+b) = 2 (a+a) = 2 (a+b) = 2

 \Rightarrow C-D cos(a,b) - cos(a-b) = -2 sin a sin b cos(x) - cos(y) = -2 sin $\left(\frac{x+y}{2}\right)$ sin $\left(\frac{x-y}{2}\right)$

cos a. cos b = $\frac{1}{2}$ (cos(a+b) + cos(a-b)) id

$$(0)(2x) = (0)^{2}x - hi^{2}x = > GS(2x) + 1 = GS^{2}x - hi^{2}x + (0)^{2}x + hi^{2}x$$

$$\Rightarrow 2 \cos^{2}x = 1 + (0)(2x) \Rightarrow GS^{2}x = \frac{1}{2}(1 + \cos(2x))$$

$$(0)(2x) - 1 = (0)^{2}x - hi^{2}x - (\cos(2x))$$

$$\Rightarrow 2 \sin^{2}x = 1 - (0)(2x) \Rightarrow \lim_{x \to \infty} \frac{1}{2}(1 - \cos(2x))$$

$$\Rightarrow 2 \sin^{2}x = 1 - (0)(2x) \Rightarrow \lim_{x \to \infty} \frac{1}{2}(1 - \cos(2x))$$

$$\Rightarrow \cos^{2}(\frac{x}{2}) = \frac{1}{2}(1 + GSx) \Rightarrow GS(\frac{x}{2}) = \pm \sqrt{\frac{1 + GSx}{2}}$$

$$\Rightarrow \sin^{2}(\frac{x}{2}) = \frac{1}{2}(1 - GSx) \Rightarrow \lim_{x \to \infty} \frac{1}{2} + \frac{1}{2}(1 - GSx)$$

$$\Rightarrow \lim_{x \to \infty} \frac{1}{2} \Rightarrow \lim_{x \to \infty} \frac{1}{2} + \frac{1}{2} + \frac{1 + GSx}{2}$$

$$\Rightarrow \lim_{x \to \infty} \frac{1}{2} \Rightarrow \lim_{x \to \infty} \frac{1}{2}$$