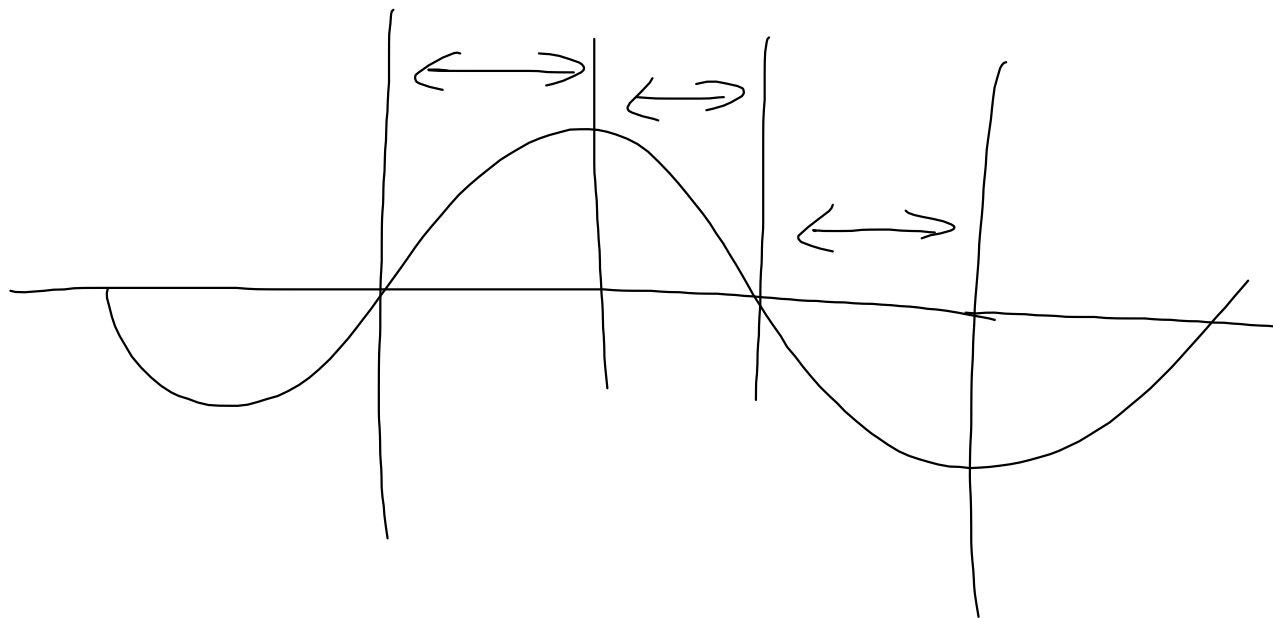


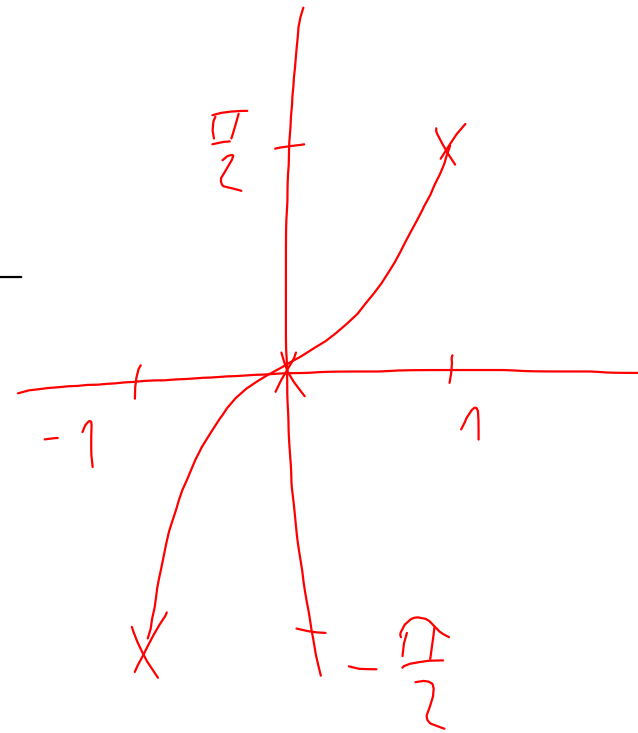
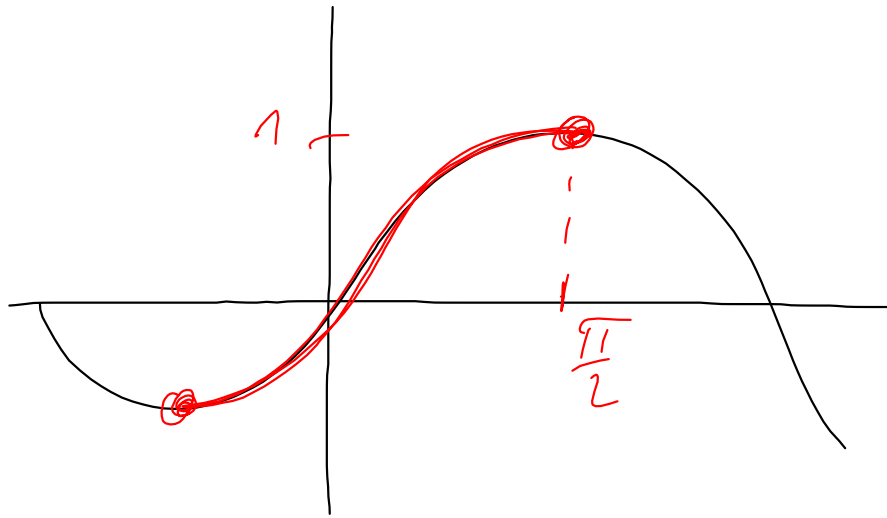
$$x^4 + 3x^2 + 2 \quad \xrightarrow{y=x^2} \quad y^2 + 3y + 2$$

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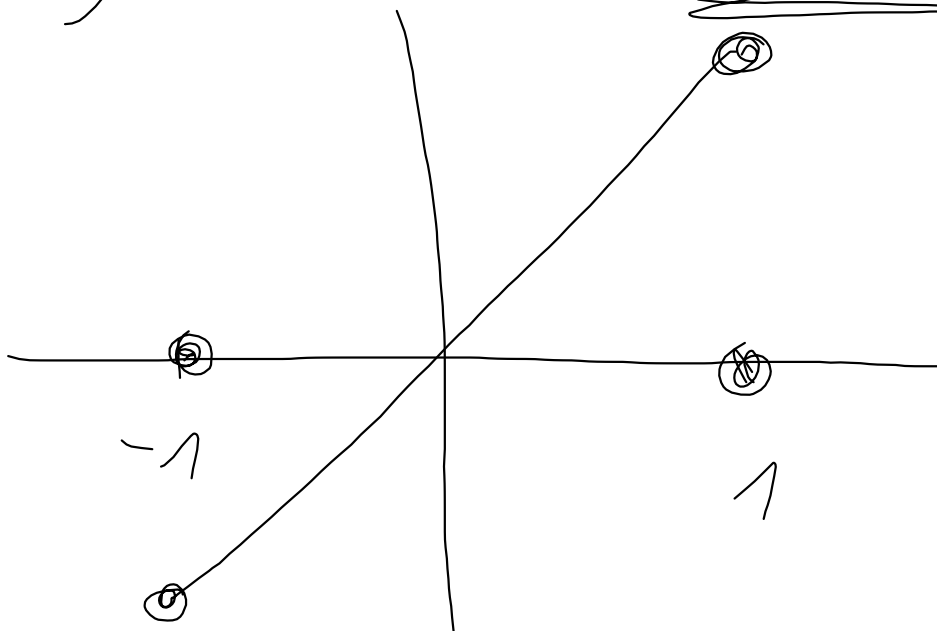
$$\frac{0}{0} = \frac{A}{x} + \frac{Bx+C}{x^2+2} + \frac{Dx+E}{x^2+1}$$



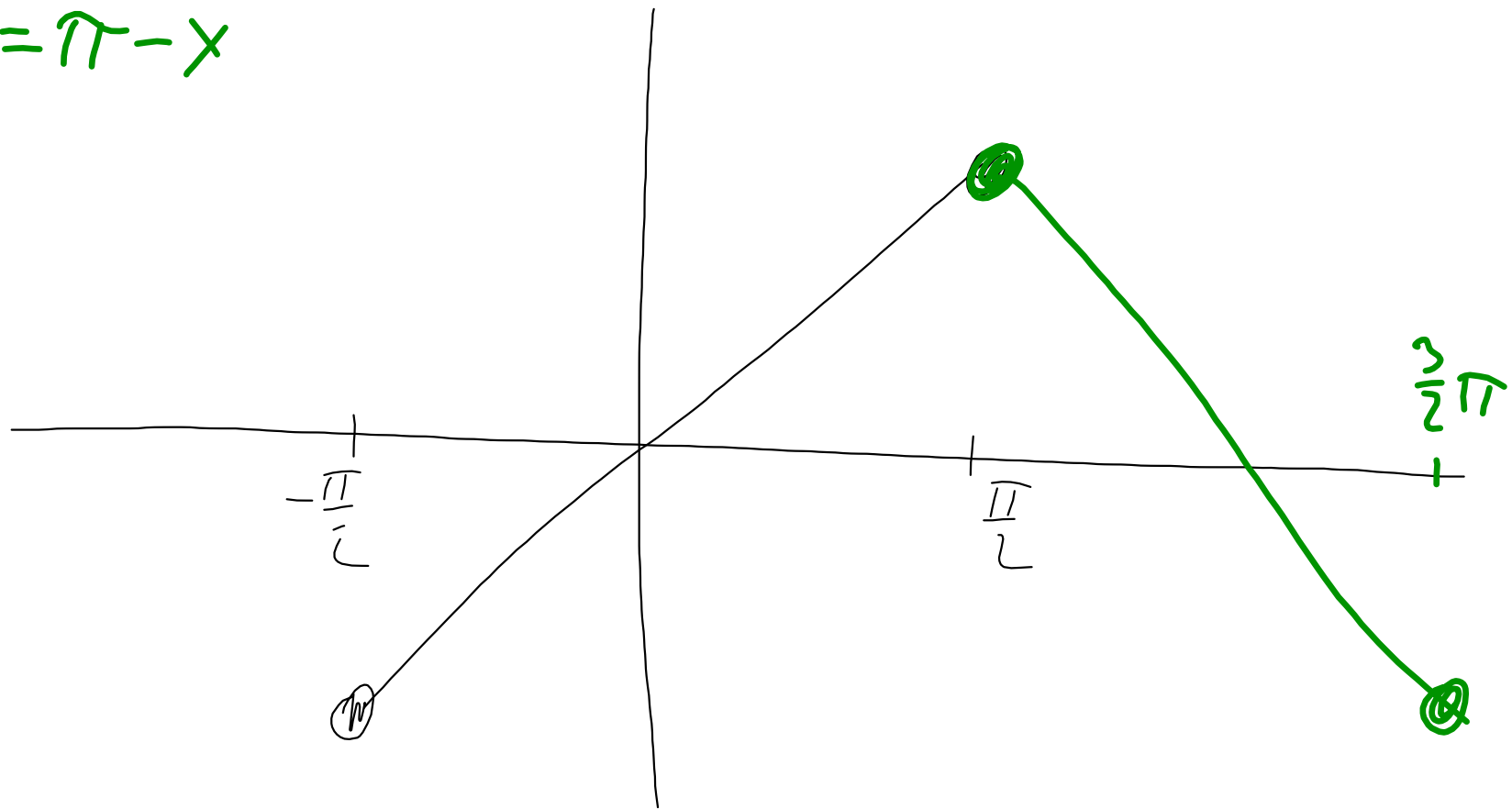
	$0^\circ$	$30^\circ$	$45^\circ$	$60^\circ$	$90^\circ$
$\sin X$	$\frac{\sqrt{0}}{2}$	$\frac{\sqrt{1}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{4}}{2}$

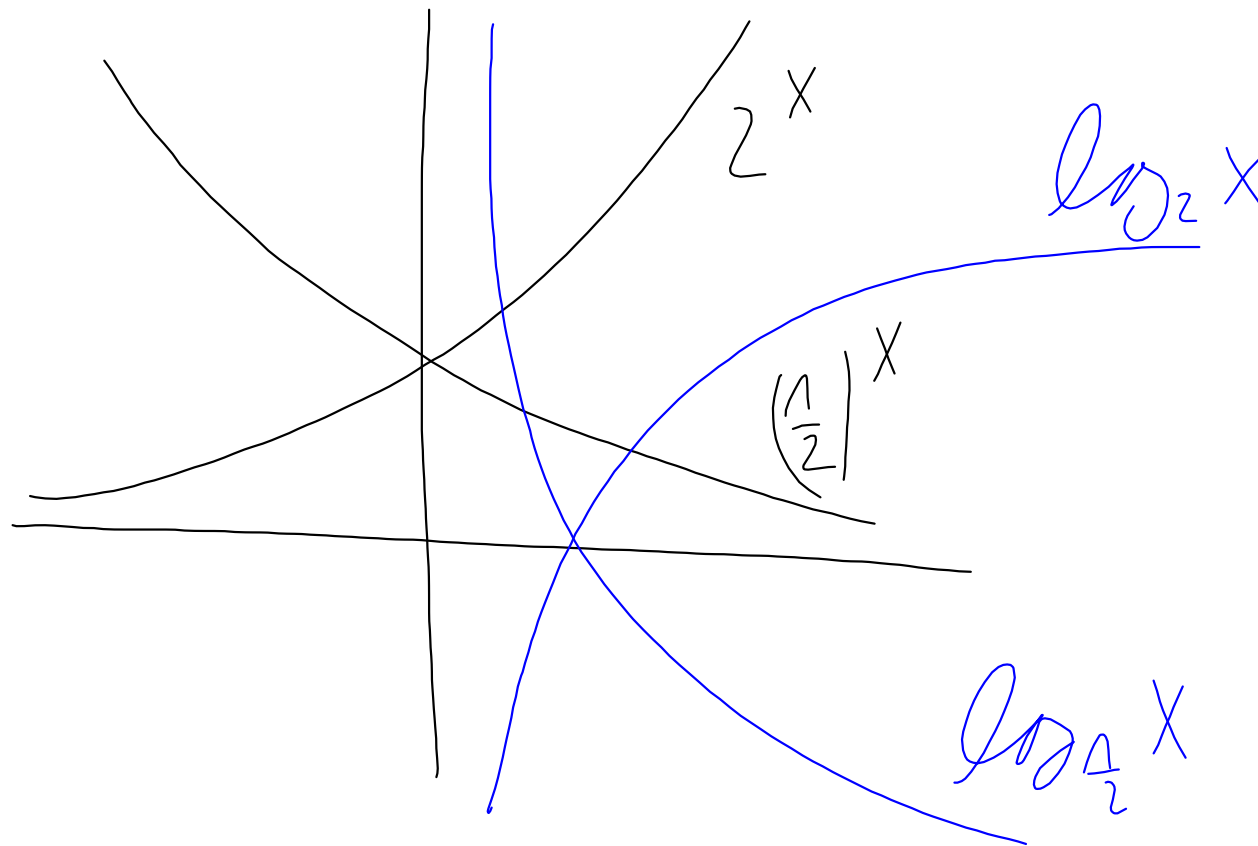


$$f(x) = \sin(\underline{\arcsin x})$$



$$y = \pi - x$$





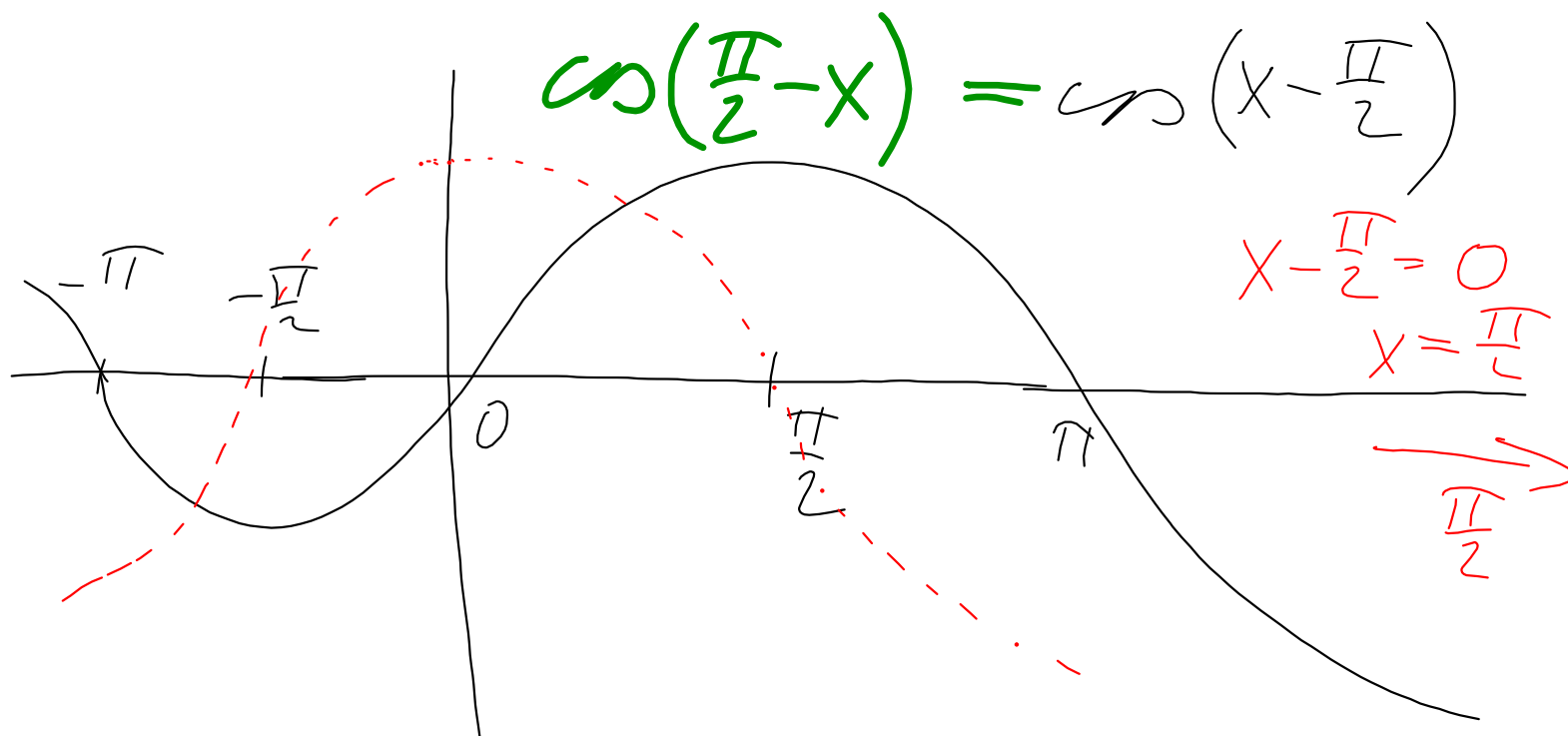
$\log_a$

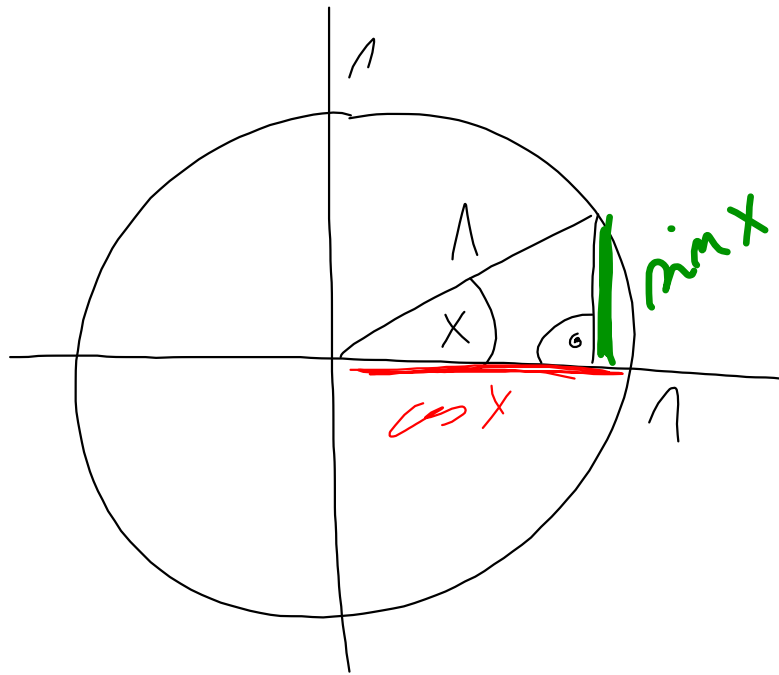
$$X = y$$

$$a^y = X$$



$$X^n = e^{\ln X^n} = \underline{\underline{e^{n \cdot \ln X}}}$$

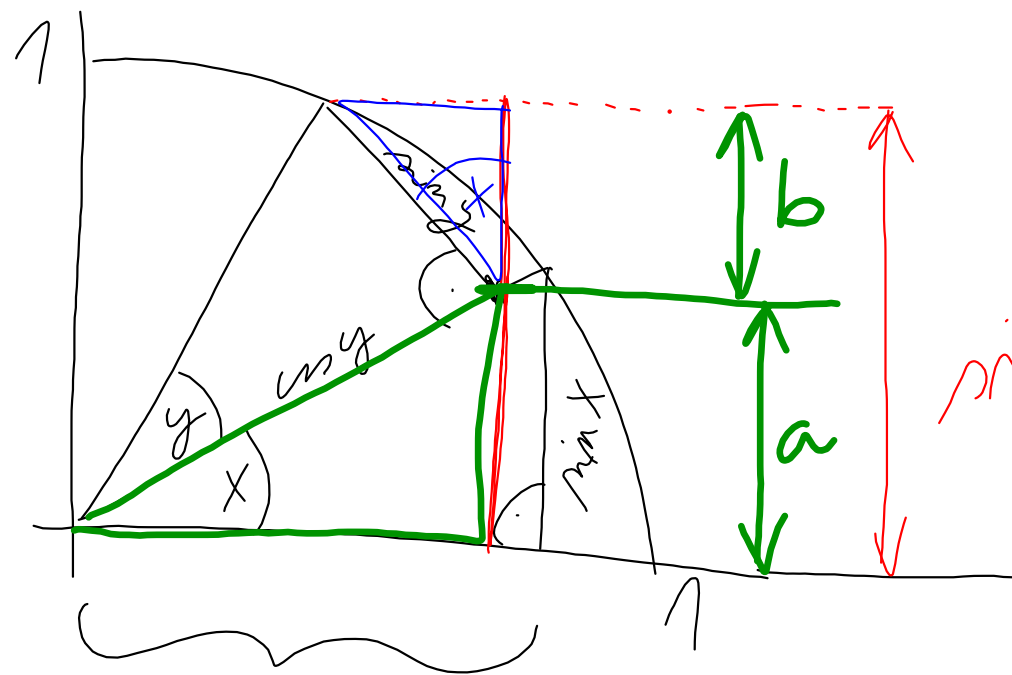




$$\sin^2 x + \cos^2 x = 1$$

$$\cos^2 x = 1 - \sin^2 x$$

$$\cos^6 x = (1 - \sin^2 x)^3$$

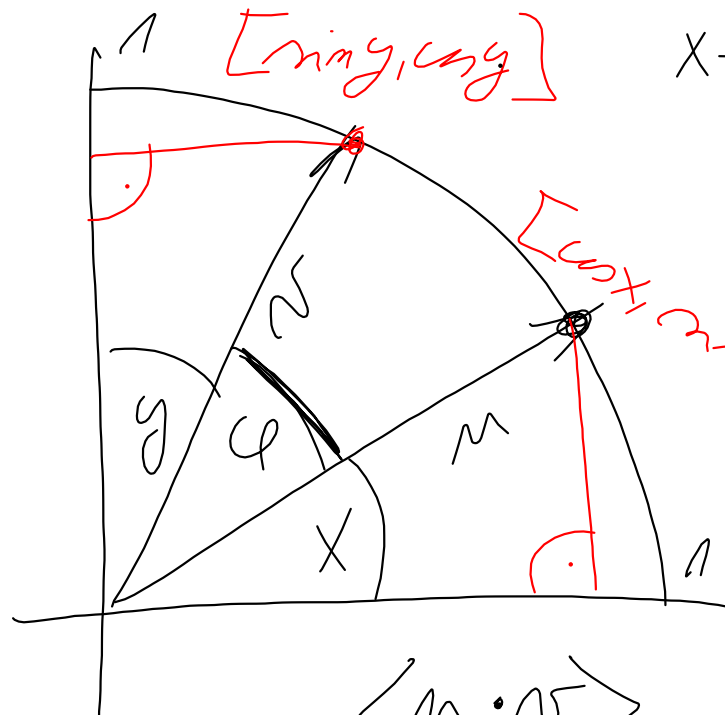


$$\sin X = \frac{a}{\cos y}$$

$\sin(X+y)$

$$\cos X = \frac{b}{\sin y}$$

$$\cos X \Rightarrow \sin(X+y) = a + b = \sin X \cdot \cos y + \cos X \cdot \sin y$$



$$x+y+\varphi = \frac{\pi}{2} \Rightarrow x+y = \frac{\pi}{2} - \varphi$$

$$\Rightarrow \varphi = \frac{\pi}{2} - (x+y)$$

$$\cos \varphi = \cos\left(\frac{\pi}{2} - (x+y)\right) = \sin(x+y)$$

$$\cos \varphi = \frac{\langle m \cdot v \rangle}{(|m| \cdot |v|)} = \sin y \cdot \cos x + \cos y \cdot \sin x$$

$$\sin^2 x = 1 - \cos^2 x \quad \& \quad \cos^2 x = \cos^2 x - \sin^2 x$$

↓  $[2x \rightarrow y]$

$$\cos y = \cos^2 \frac{y}{2} - \sin^2 \frac{y}{2} = \cos^2 \frac{y}{2} - (1 - \cos^2 \frac{y}{2}) = 2 \cdot \cos^2 \frac{y}{2} - 1 \Rightarrow \cos^2 \frac{y}{2} = \frac{1 + \cos y}{2}$$