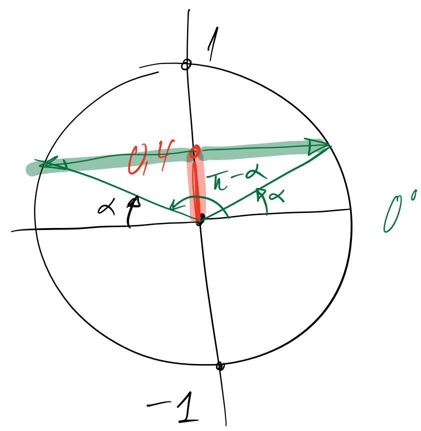
$\sin\alpha = 0{,}4$

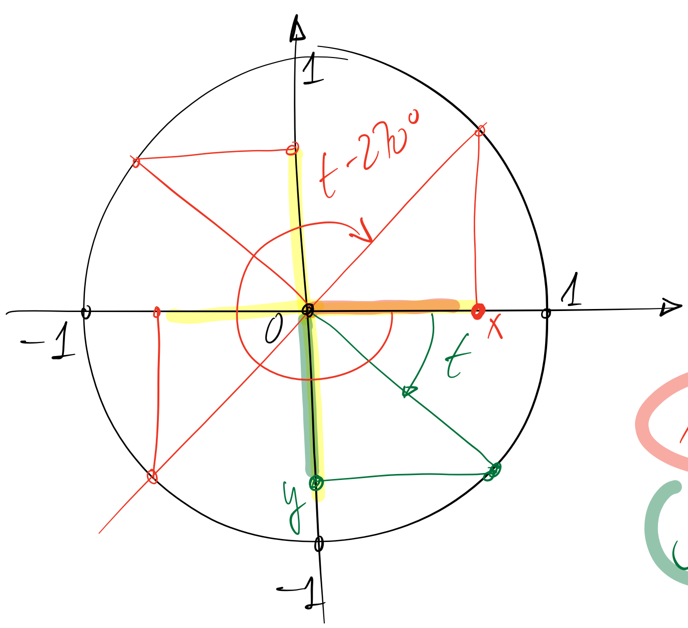
$\sin^{-1}$ TI30

$\boxed{\alpha = \arcsin(0{,}4) + k\cdot 2\pi}$ # tours

$\boxed{\alpha = \boxed{\pi - \arcsin(0{,}4)} + k\cdot 2\pi}$



$$\frac{\sin^2 x}{1-\cos x} = x$$

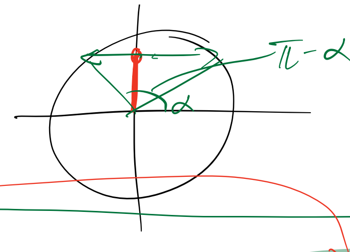


$$\boxed{\begin{array}{c}\cos(t-270^\circ)\\ \parallel \\ -\sin(t)\end{array}}$$

$x>0$

$y<0$

$$\sin\left(\frac{2t}{3}+\frac{\pi}{4}\right)=\frac{\sqrt{2}}{2}$$



$$\Leftrightarrow \quad (1) \quad \boxed{\frac{2t}{3}+\cancel{\frac{\pi}{4}}} = \overset{\pi/4}{\arcsin\left(\frac{\sqrt{2}}{2}\right)} + k\,2\pi = \boxed{\cancel{\frac{\pi}{4}}+k\cdot 2\pi}$$

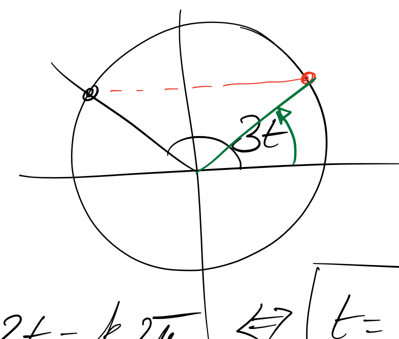
$$\frac{2t}{3}=k\cdot 2\pi \qquad \boxed{t} = k\cdot\frac{6\pi}{2} = \boxed{k\cdot 3\pi} \qquad k\in\mathbb{Z}$$

$$(2) \quad \frac{2t}{3}+\frac{\pi}{4} = \pi - \arcsin\left(\frac{\sqrt{2}}{2}\right) + k\,2\pi$$

$$\frac{2t}{3}+\frac{\pi}{4} = \pi-\frac{\pi}{4}+k2\pi \Leftrightarrow \frac{2t}{3}=\pi\overbrace{-\frac{\pi}{4}-\frac{\pi}{4}}^{-\pi/2}+k2\pi \qquad k\in\mathbb{Z}$$

$$\frac{2t}{3}=\frac{\pi}{2}+k\,2\pi \Leftrightarrow t=\frac{3\pi}{4}+k\cdot 3\pi$$

$$\sin 3t=\sin 2t$$



$$3t=\arcsin(\sin 2t)+k\,2\pi$$

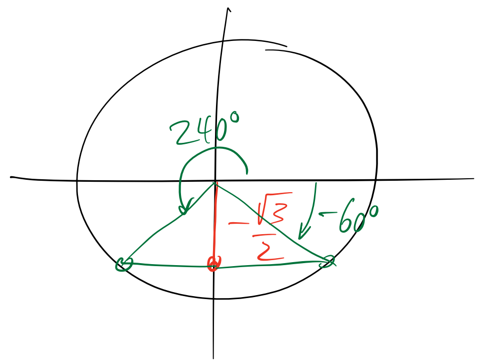
$$\boxed{3t=2t+k\,2\pi} \Leftrightarrow 3t-2t=k\,2\pi \Leftrightarrow \boxed{t=0+k\,2\pi}$$

$$3t=\pi-2t+k\,2\pi$$

$$5t=\pi+k2\pi$$

$$t=\frac{\pi}{5}+k\cdot\frac{2\pi}{5}$$

$$\sin(3t) = -\frac{\sqrt{3}}{2}$$



$$\Leftrightarrow \quad 3t = -60° + k \cdot 360°$$

$$3t = 240° + k \cdot 360°$$

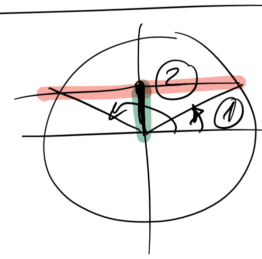
$$\frac{\sin 3t}{\cos 3t} = \frac{\cos t}{\sin t} \quad \Rightarrow \quad \sin 3t \sin t = \cos 3t \cos t$$

$$\sin\alpha \sin\beta = \frac{1}{2}\left(\cos(\alpha+\beta) + \cos(\alpha-\beta)\right)$$

$$\sin 3t \sin t = \frac{1}{2}\left(\cos(4t) + \cos(2t)\right)$$

$$\tan 3t = \frac{1}{\tan t}$$

$$\sin\left(\frac{2t}{3} + \frac{\pi}{4}\right) = \frac{\sqrt{2}}{2}$$



$$① \quad \frac{2t}{3} + \frac{\pi}{4} = \arcsin\left(\frac{\sqrt{2}}{2}\right) + k2\pi$$

$$② \quad \frac{2t}{3} + \frac{\pi}{4} = \pi - \arcsin\left(\frac{\sqrt{2}}{2}\right) + k2\pi$$