

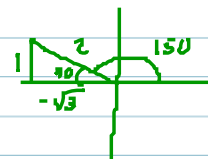
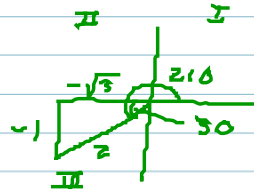
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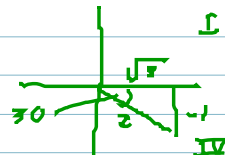
$$\cos^{-1}(\cos(\frac{7\pi}{6}))$$

$$\cos^{-1}(-\frac{\sqrt{3}}{2}) = \frac{5\pi}{6} \leftarrow$$



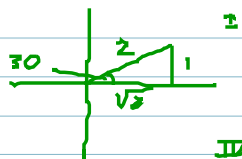
$$\sin^{-1}(\sin(\frac{7\pi}{6}))$$

$$\sin^{-1}(-\frac{1}{2}) = -\frac{\pi}{6} \leftarrow$$



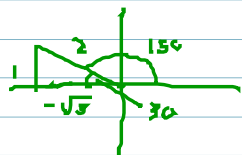
$$\tan^{-1}(\tan(\frac{7\pi}{6}))$$

$$\tan^{-1}(-\frac{1}{\sqrt{3}}) \cdot \tan^{-1}(\frac{\sqrt{3}}{3}) = \frac{\pi}{6} \leftarrow$$



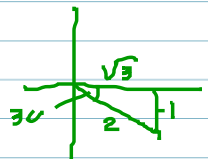
$$\cos^{-1}(\cos(\frac{5\pi}{6})) = \frac{5\pi}{6}$$

$$-\frac{\sqrt{3}}{2} \rightarrow$$



$$\sin^{-1}(\sin(-\frac{\pi}{6})) = -\frac{\pi}{6}$$

$$-\frac{1}{2} \rightarrow$$

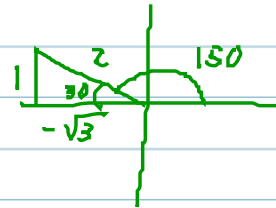
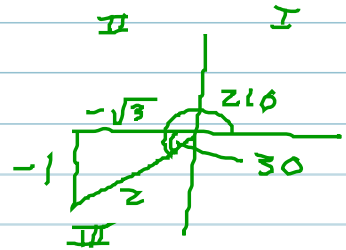


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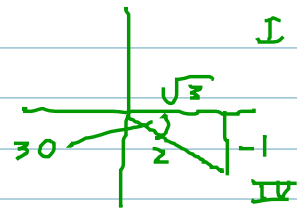
$$\cos^{-1}(\cos(\frac{7\pi}{6}))$$

$$\cos^{-1}(-\frac{\sqrt{3}}{2}) = \frac{5\pi}{6} \leftarrow$$



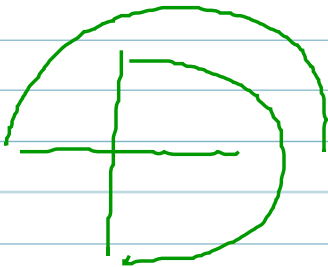
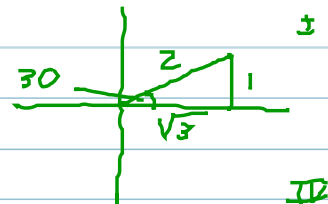
$$\sin^{-1}(\sin(\frac{7\pi}{6}))$$

$$\sin^{-1}(-\frac{1}{2}) = -\frac{\pi}{6} \leftarrow$$



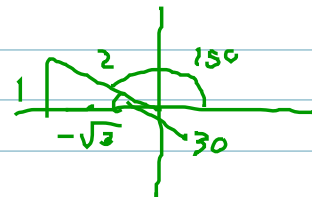
$$\tan^{-1}(\tan(\frac{7\pi}{6}))$$

$$\tan^{-1}(-\frac{1}{\sqrt{3}}) = \tan^{-1}(\frac{1}{\sqrt{3}}) = \frac{\pi}{6} \leftarrow$$



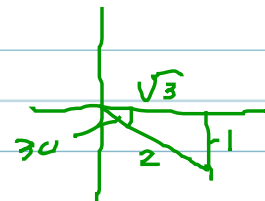
$$\cos^{-1}(\cos(\frac{5\pi}{6})) = \frac{5\pi}{6}$$

$-\frac{\sqrt{3}}{2}$ \rightarrow



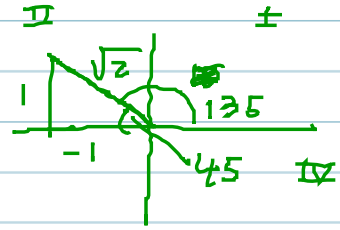
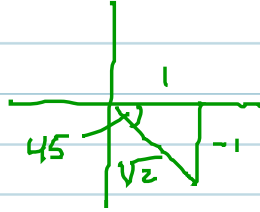
$$\sin^{-1}(\sin(-\frac{\pi}{6})) = -\frac{\pi}{6}$$

$-\frac{1}{2}$ \rightarrow



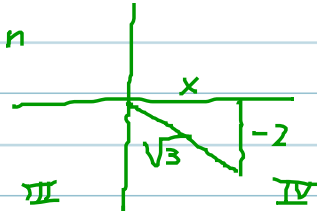
$$\sin^{-1}(\cos(\frac{3\pi}{4}))$$

$$\sin^{-1}(-\frac{1}{\sqrt{2}}) = -\frac{\pi}{4}$$



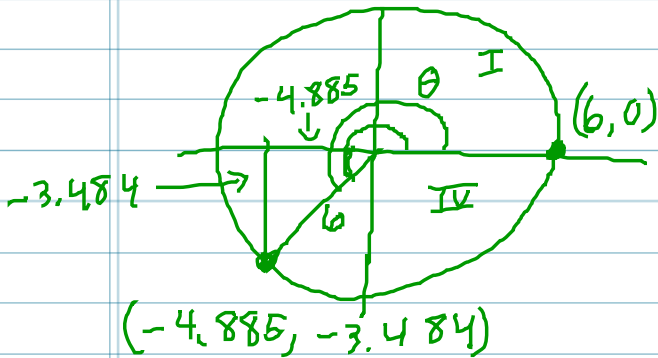
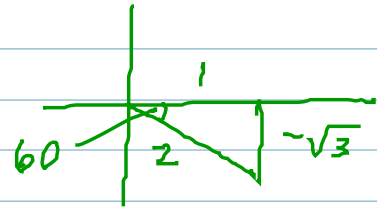
$$\sec(\csc^{-1}(-\frac{\sqrt{3}}{2})) = \text{NO solution}$$

$$\begin{aligned} (-2)^2 + x^2 &= (\sqrt{3})^2 \\ 4 + x^2 &= 3 \\ x^2 &= -1 \end{aligned}$$



$$\sec(\csc^{-1}(-\frac{2}{\sqrt{3}}))$$

$$\sec(-\frac{\pi}{3}) = 2$$



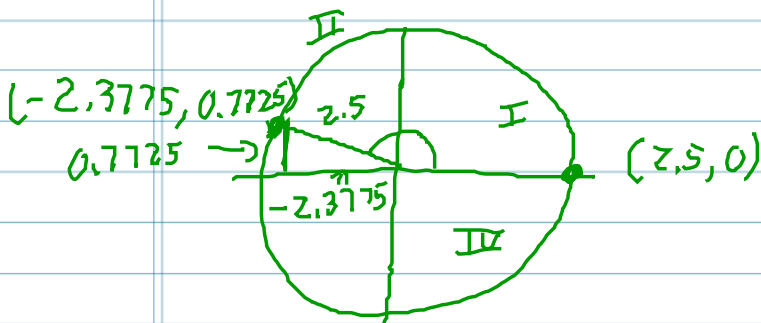
$$\sin^{-1}(\frac{-3.484}{6}) = -35.497^\circ$$

$$\tan^{-1}(\frac{-3.484}{-4.885}) = 35.497^\circ$$

$$\theta = 215.497^\circ$$

$$\cos^{-1}(\frac{-4.885}{6}) = 144.505^\circ$$

$$35.495^\circ$$

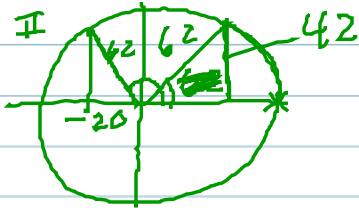


$$\cos^{-1}(\frac{-2.3775}{2.5}) = 161.9895^\circ$$

$$\sin^{-1}(\frac{0.7725}{2.5}) = 17.999^\circ$$

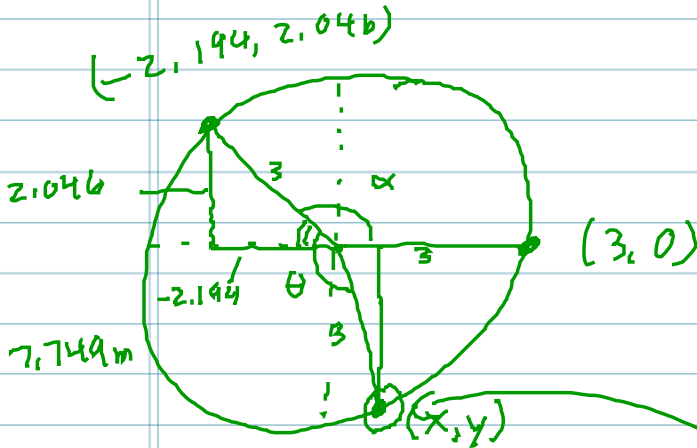
$$\tan^{-1}(\frac{0.7725}{-2.3775}) = -18^\circ$$

$$162^\circ$$



$$\sin^{-1}\left(\frac{42}{62}\right) = 42.64^\circ$$

$$\cos^{-1}\left(-\frac{20}{62}\right) = 108.819^\circ$$



$$s = r\theta$$

$$7.749 = 3(\theta)$$

$$\theta = 2.583$$

$$-\frac{2.194}{3} = \cos(\alpha) \quad \alpha = 2.391$$

$$\frac{2.046}{3} = \sin(\alpha) \quad \alpha = 0.7505$$

$$\alpha + \theta = 4.974$$

$$(0.7759, -2.898)$$

$$\cos(\alpha + \theta) = \frac{x}{3}$$

$$\cos(4.974) = \frac{x}{3}$$

$$x = 3 \cos(4.974) = 0.7759$$

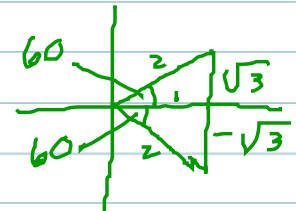
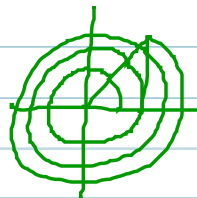
$$\sin(\alpha + \theta) = \frac{y}{3}$$

$$\sin(4.974) = \frac{y}{3}$$

$$y = 3 \sin(4.974) = -2.898$$

$$\begin{aligned} \cos(\theta) &= \frac{1}{2} \\ \theta &= \cos^{-1}\left(\frac{1}{2}\right) \\ &= \frac{\pi}{3}, \frac{5\pi}{3}, \frac{7\pi}{3}, \frac{11\pi}{3}, \frac{13\pi}{3}, \frac{17\pi}{3}, \frac{19\pi}{3}, \frac{23\pi}{3} \end{aligned}$$

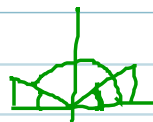
$$\frac{2\pi}{3}, \frac{6\pi}{3}$$



$$\frac{2}{2} \sin(\theta) = \frac{0.4}{2}$$

$$\sin(\theta) = 0.2$$

$$\begin{aligned} \theta &= \sin^{-1}(0.2) \\ &= 11.537^\circ \\ &= 168.463^\circ \end{aligned}$$



$$\frac{4}{4} \tan(2\theta) = -\frac{6}{4}$$

$$\tan(\frac{2\theta}{u}) = -1.5$$

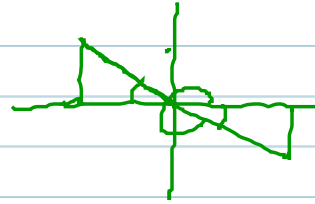
$$\tan(u) = -1.5$$

$$u = \tan^{-1}(-1.5)$$

$$2\theta = u = -56.3099^\circ$$

$$303.6901^\circ$$

$$663.6901^\circ$$



$$\text{OR } 123.6901^\circ$$

$$483.6901^\circ$$

$$843.6901^\circ$$

$$\theta = -28.15495^\circ$$

$$151.84505^\circ$$

$$331.84505^\circ$$

OR

$$61.84505^\circ$$

$$241.84505^\circ$$

$$421.84505^\circ$$