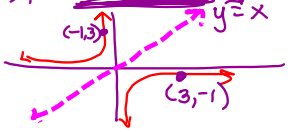
What is an inverse?

* if you don't remember - google it!!

$f^{-1}(x)$ → inverts domain & range

→ reflect $y=x$ $x \leftrightarrow y$



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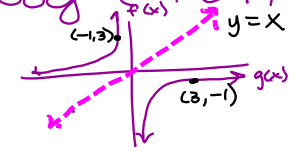
What is an inverse?

If you don't remember - Google it!!

- reflect ✓
- $x \leftrightarrow y$ ✓
- $f^{-1}(x)$ ✓



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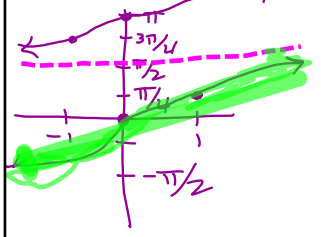
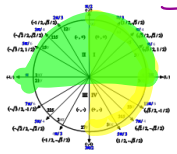
Trig Inverses:

$y = \tan^{-1}(x)$ * $-\frac{\pi}{2} \le \theta \le \frac{\pi}{2}$

I, IV





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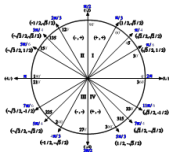
Ex.

① $\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right) = \frac{5\pi}{6}$ what angle

② Arcsin $-\frac{\sqrt{2}}{2}$ or $\sin^{-1}$

$\frac{7\pi}{4} = -\frac{\pi}{4}$



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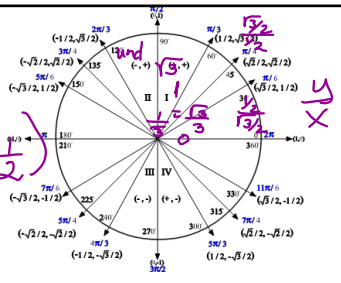
(10)

$\cos\left(\cos^{-1}0 + \sin^{-1}\frac{1}{2}\right)$

$\cos\left(\frac{3\pi}{6} + \frac{\pi}{6}\right)$

$\cos\frac{4\pi}{6} = \cos\frac{2\pi}{3}$

$-\frac{1}{2}$



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