Trig 6.7 tot?

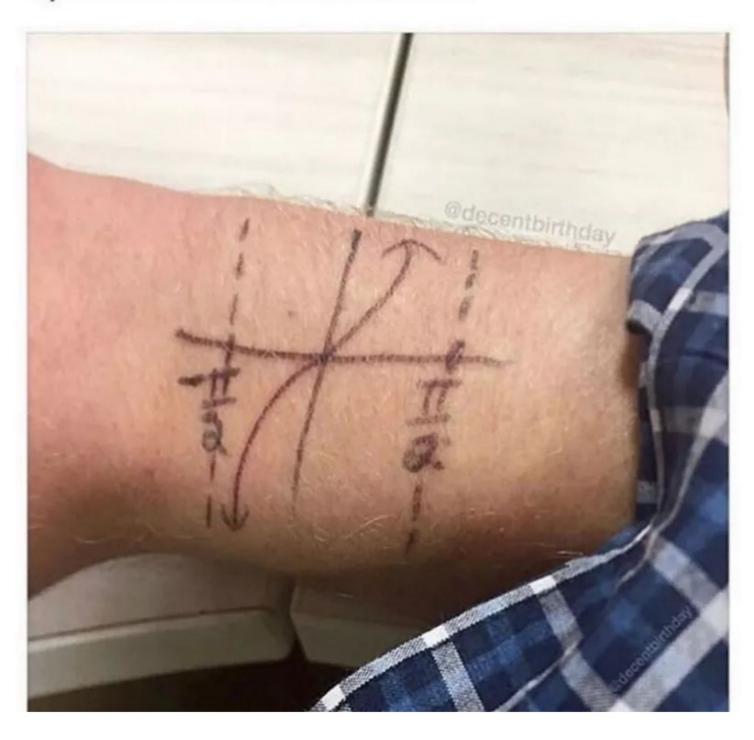
Graph secant and cosecant Write equations of trig functions

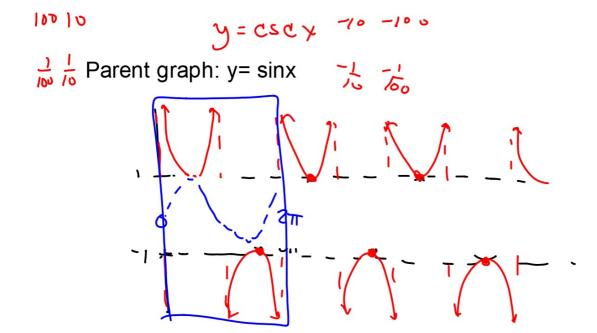
cosecant uner 2

reciprocal

asymptote

Just fell asleep at the beach and woke up with a hideous tan line





Where sine has a zero...

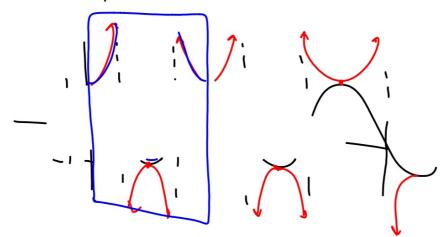
Also: what is the reciprocal of one?

† °th tt th tt

Properties	of
the Graph	of
v = csc	X

- 1. The period $\leq 2\pi$.
- 2. The domain is the set of real numbers except πn , where n is an integer.
- 3. The range is the set of real numbers greater than or equal to 1 or less P. 307 than or equal to -1.
 - 4. There are no x-intercepts.
 - 5. There are no y-intercepts.
 - 6. The asymptotes are $x = \pi n$, where n is an integer.
- 7. y = 1 when $x = \frac{\pi}{2} + 2\pi n$, where n is an integer. 8. y = -1 when $x = \frac{3\pi}{2} + 2\pi n$, where n is an integer.

Where cos has a zero... What is the reciprocal of one?

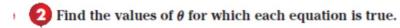


t tt/1 tt tt

P. 397

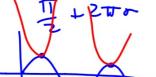
Properties of the Graph of $y = \sec x$

- 1. The period is 2π .
- 2. The domain is the set of real numbers except $\frac{\pi}{2}n$, where n is an odd integer.
- 3. The range is the set of real numbers greater than or equal to 1 or less than or equal to -1.
- 4. There are no x-intercepts.
- 5. The y-intercept is 1.
- 6. The asymptotes are $x = \frac{\pi}{2}n$, where n is an odd integer.
- 7. y = 1 when $x = \pi n$, where n is an even integer.
- 8. y = -1 when $x = \pi n$, where n is an odd integer.



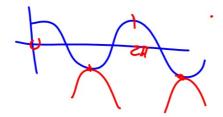
a. $\csc \theta = 1$

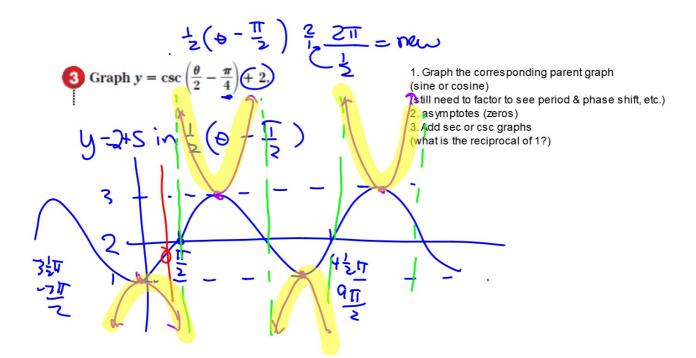
sino



b. $\sec \theta = -1$

NITS+ IT 60)





Write an equation for a secant function with period π , phase shift $\frac{\pi}{3}$, and vertical shift $\frac{\pi}{3}$.

$$y = -3 + Se(2(\theta - \frac{\pi}{3})) \frac{2\pi}{n} = \pi$$

$$\frac{7n}{\pi} = 2\pi$$

