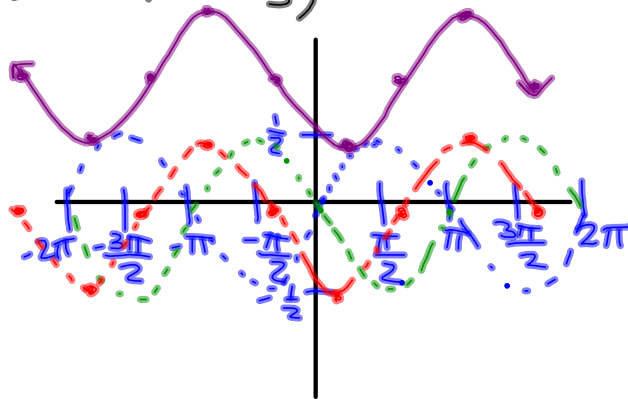


4.5 Graphs of Tangent, Cotangent, Secant & cosecant

- Obj: 1. Graph $\tan\theta$, $\cot\theta$, $\sec\theta$, $\csc\theta$.
 2. Use transformations.

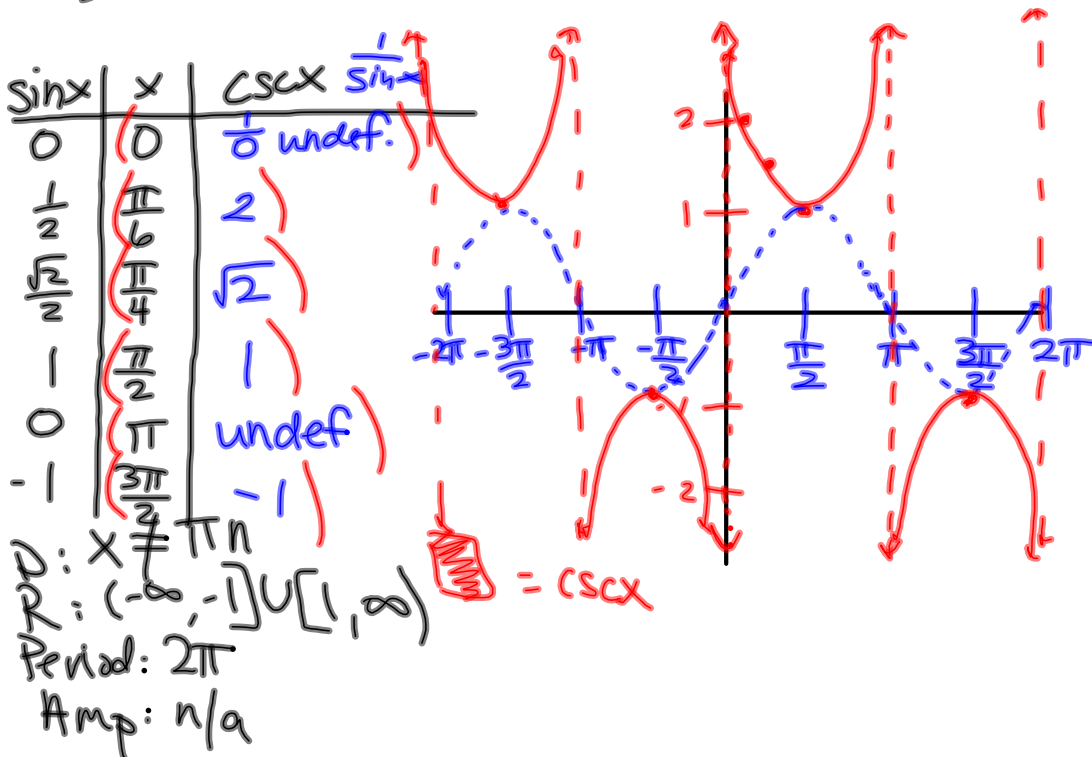
Review: $y = -\frac{1}{2}\sin(x + \frac{\pi}{3}) + 1$

- a: $\frac{1}{2}$
- b: 1 per: 2π
- *c: $-\frac{\pi}{3}$
- *d: 1
- *refl. over x-axis

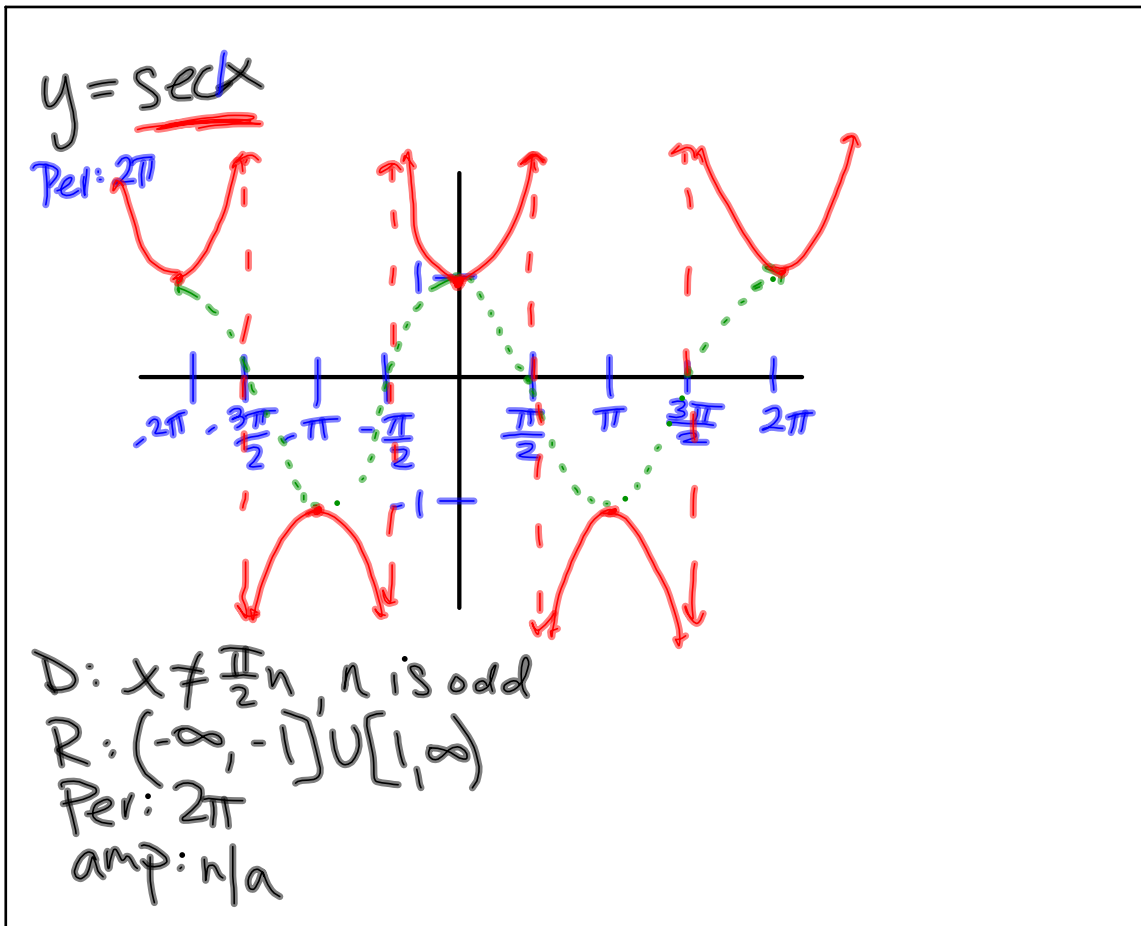


Jan 16-8:54 AM

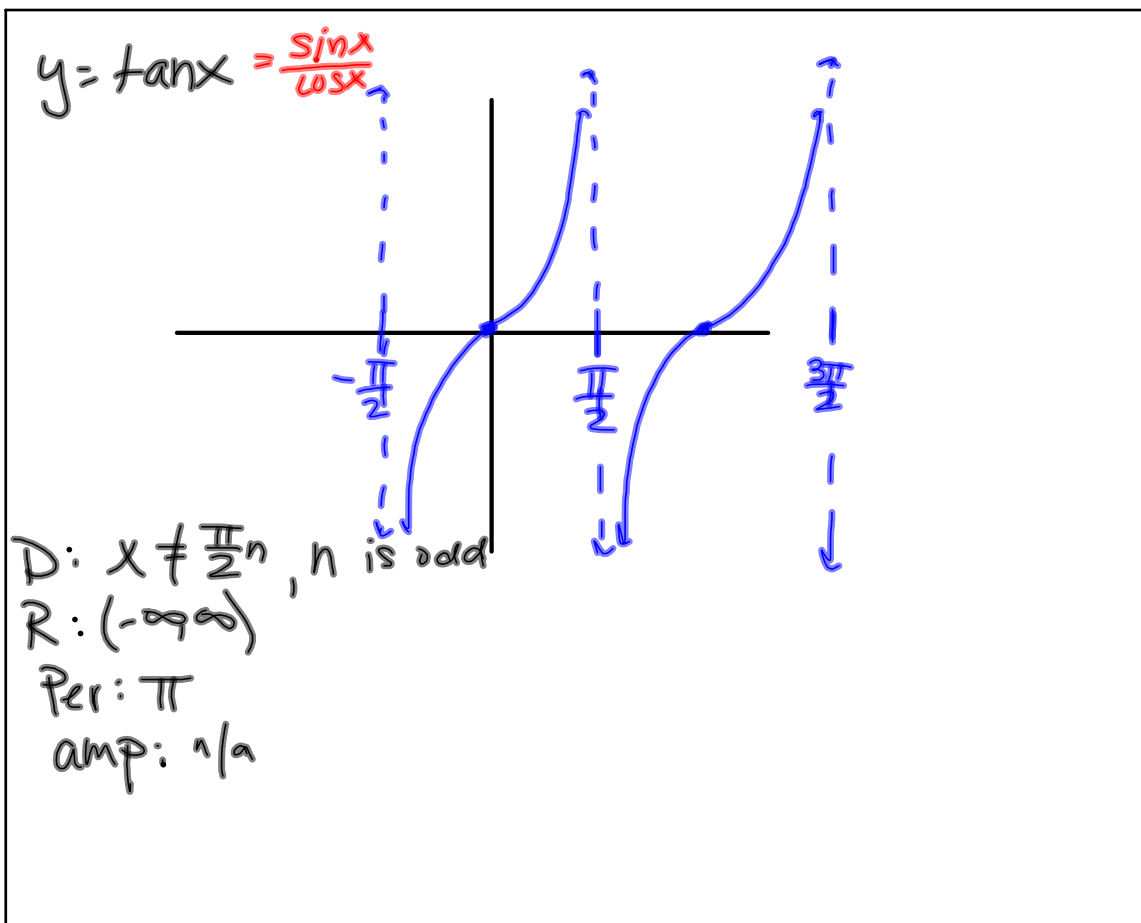
$$\frac{1}{\sin x} = \csc x$$



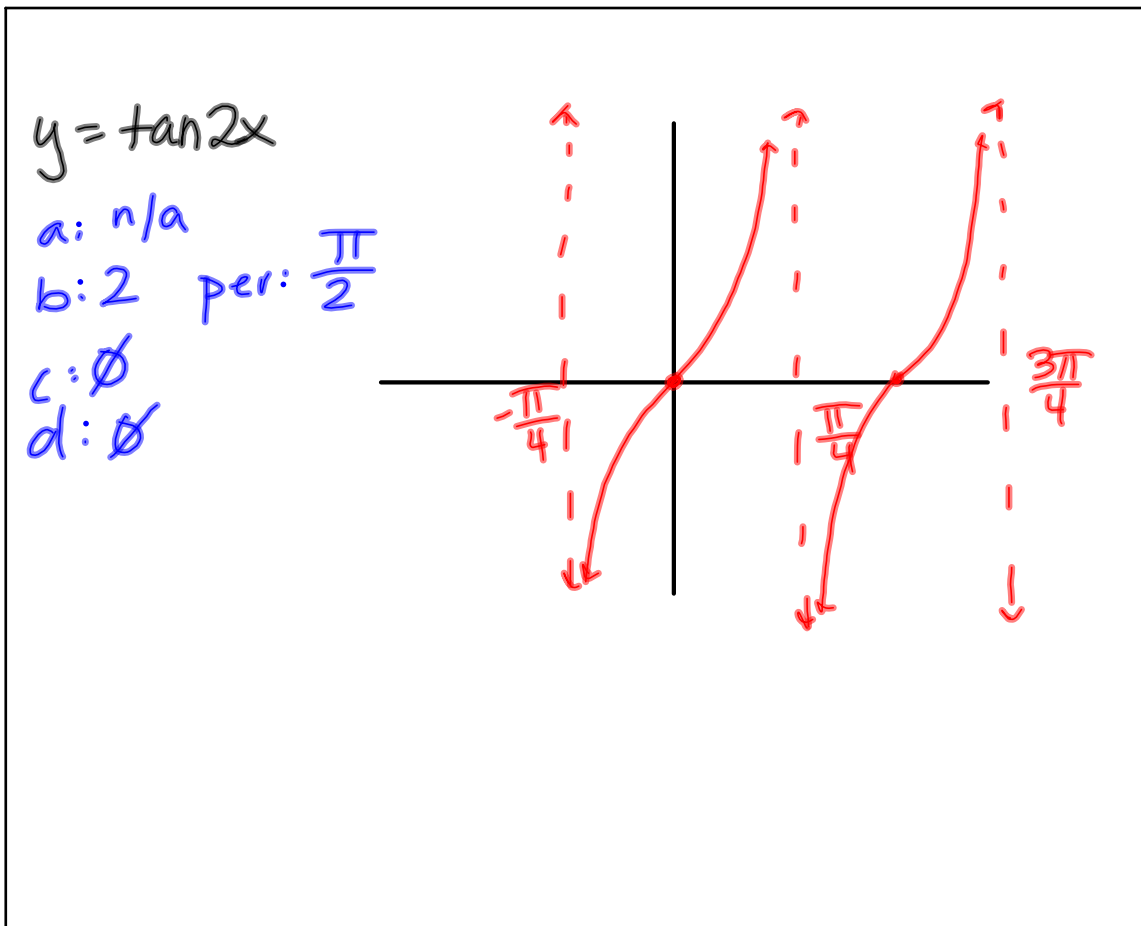
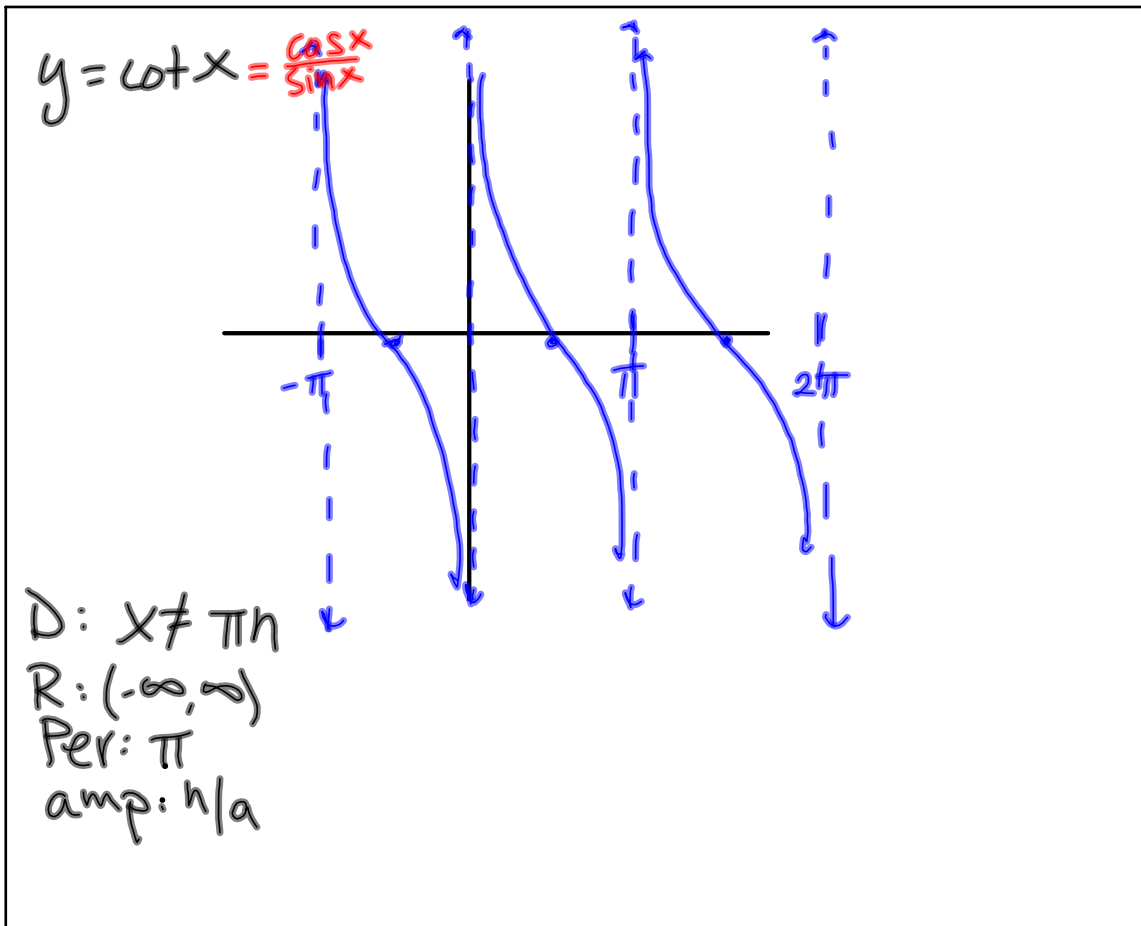
Jan 16-9:58 AM

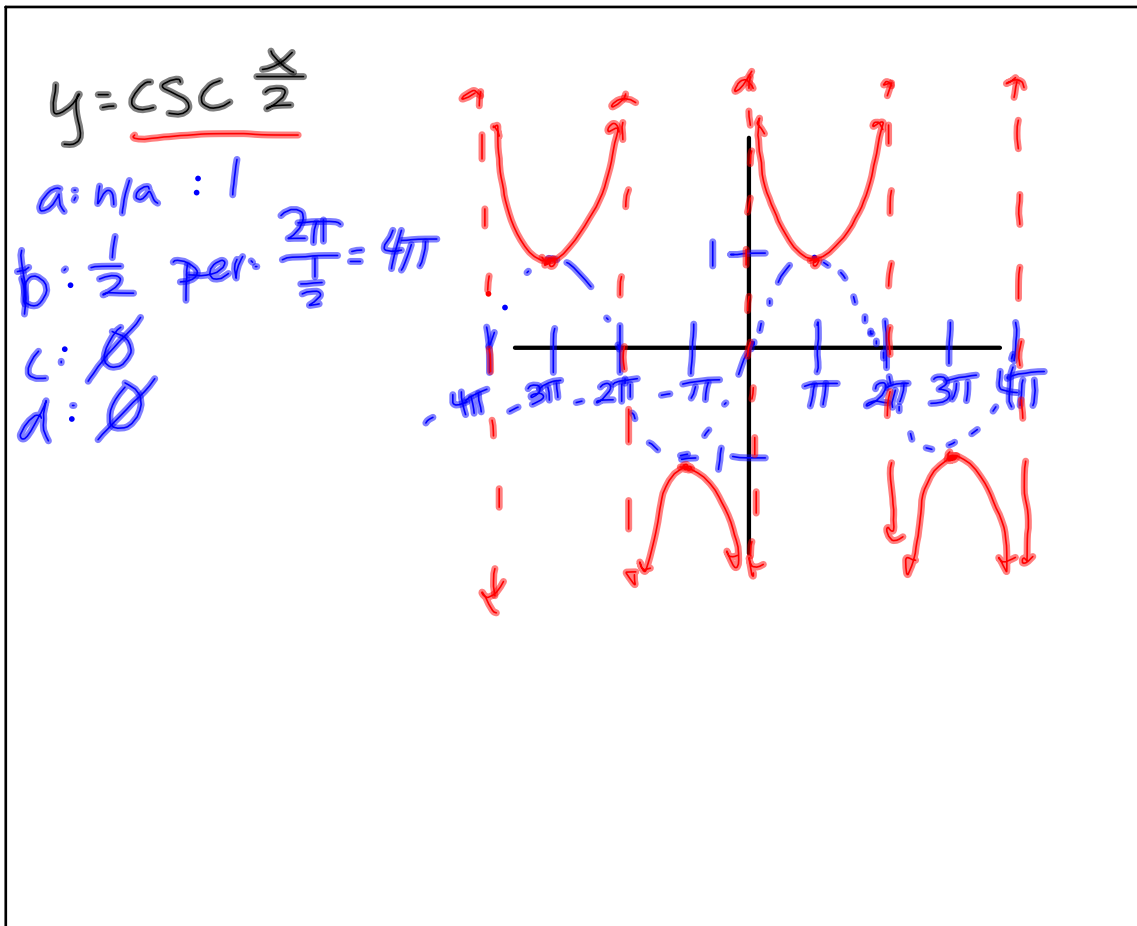


Jan 16-10:12 AM



Jan 16-10:18 AM





Jan 16-10:29 AM