trig notes structure

theory

- sin, cos, tan definitions
- names and correspondence with recoprocal functions
- unit circle
- radian definition
- sin rule $\frac{Sin\alpha}{a} = \frac{Sin\beta}{b} = \frac{Sin\delta}{d}$
- cos rule $c^2 = a^2 + b^2 - 2abCos\theta$
- $Sin^2\theta + Cos^2\theta = 1$
- $sin(\alpha \pm \beta) = sin(\alpha)cos(\beta) \pm cos(\alpha)sin(\beta)$
- $cos(\alpha \pm \beta) = cos(\alpha)cos(\beta) \mp sin(\alpha)sin(\beta)$
- graph of sin, cos, tan
- derivability
- other identities based on circle

problem kinds

- incomplete triangles
- how to find the triangles