$$\tan\alpha = \frac{\sin\alpha}{\cos\alpha}$$

 $\tan 2\alpha =$

tan 3α =

$$\tan 2\alpha = \frac{2\tan\alpha}{1-\tan^2\alpha}$$

 $3 \tan \alpha - \tan^3 \alpha$

 $1 - 3 \tan^2 \alpha$