$$\frac{12\sin 11^\circ \cdot \cos 11^\circ}{\sin 22^\circ}$$

sin11*2=2sin11*cos11

12sin11*cos11 =6
2sin11*cos11

$$\frac{24(\sin^2 17^\circ - \cos^2 17^\circ)}{\cos 34^\circ}$$

cos34=cos^2(17)-sin^2(17)
=-(-cos^2(17)+sin^2(17))

=-24

$$\frac{5\cos 29^\circ}{\sin 61^\circ}$$

5cos(90-61)=cos90*cos61+sin61*sin90=5sin61

=5

$$36\sqrt{6}\,\mathrm{tg}\,\frac{\pi}{6}\sin\frac{\pi}{4}$$

36V6 * 1/V3 * V2/2=36V12/V12=36