S.55/5a:

$$\sin\alpha = \frac{\tan\alpha}{\sqrt{1+\tan^2\alpha}};$$

S.55/7a:

$$\cos\alpha = \sqrt{1-\sin^2\alpha} = \frac{\sqrt{15}}{4} \approx 0{,}9682;$$

$$\tan\alpha = \frac{\sin\alpha}{\cos\alpha} = \frac{\sqrt{15}}{15} \approx 0{,}2582;$$

S.55/8a,g:

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

$$\sqrt{1+\cos\alpha}\cdot\sqrt{1-\cos\alpha} = \sqrt{1^2-\cos^2\alpha} = \sqrt{\sin^2\alpha} = \sin\alpha;$$