

77. Cont.

(21)

$$\sin^2\left(\frac{\pi}{8} + \frac{\theta}{2}\right) - \sin^2\left(\frac{\pi}{8} - \frac{\theta}{2}\right) =$$

$$= \sin\left(2\frac{\pi}{8}\right) \cdot \sin\left(2\frac{\theta}{2}\right)$$

$$= \sin\frac{\pi}{4} \cdot \sin\theta$$

$$= \frac{\sqrt{2}}{2} \sin\theta$$