$$\sin\left(\frac{T}{12}\right) = \sin\left(\frac{T}{4} - \frac{T}{6}\right) = \sin\frac{T}{4}\cos\frac{T}{6} - \sin\frac{T}{6}\cos\frac{T}{4}$$

$$= \frac{1}{\sqrt{2}} \times \frac{\sqrt{3}}{2} - \frac{1}{2} \times \frac{1}{\sqrt{2}}$$

$$= \frac{\sqrt{3} - \sqrt{2}}{2\sqrt{2}}$$

$$= \frac{\sqrt{3} - \sqrt{2}}{4}$$

$$= 2^{\frac{1}{6}}\left(\frac{\sqrt{3} + \sqrt{2}}{4} + \frac{\sqrt{2}}{2}\right) + i\left(\frac{\sqrt{3} - \sqrt{2}}{4} + \frac{\sqrt{2}}{2}\right)$$

$$= 2^{\frac{1}{6}}\left(\frac{\sqrt{3} + \sqrt{2} + \sqrt{2}}{4} + i\frac{\sqrt{3} - \sqrt{2}}{4} + \frac{\sqrt{2}}{2}\right)$$

$$= 2^{\frac{1}{6}}\left(\frac{\sqrt{3} + 3\sqrt{2}}{4} + i\frac{\sqrt{3} + \sqrt{2}}{4} + i\frac{\sqrt{3} + \sqrt{2}}{4}\right)$$

$$= 2^{\frac{1}{6}}\left(\frac{\sqrt{3} + 3\sqrt{2}}{4} + i\frac{\sqrt{3} + \sqrt{2}}{4}\right)$$

$$= 2^{\frac{1}{6}}\sqrt{3} + i\frac{\sqrt{3} + \sqrt{2}}{4}$$

$$= 2^{\frac{1}{6}}\sqrt{3} + i\frac{\sqrt{3} + \sqrt{3}}{4}$$

$$= 2^{\frac{1}{6}}\sqrt{3} + i\frac{\sqrt{3}}{3}$$

$$= 2^{\frac{1}{6}} \times ix \times \sqrt{2 + \sqrt{3}}$$

$$= 2^{\frac{1}{6}} \times$$