$$E = \frac{\cos \alpha - \sqrt{n^2 - \sin^2(\alpha)}}{\cos \alpha + \sqrt{n^2 - \sin^2(\alpha)}}$$

$$E(\cos \alpha + \sqrt{n^{2} - \sin^{2}(\alpha)}) = \cos \alpha - \sqrt{n^{2} - \sin^{2}(\alpha)}$$

$$(E - 1)\cos \alpha = -(E + 1)\sqrt{n^{2} - \sin^{2}(\alpha)} \quad |(...)^{2}| : (E + 1)$$

$$E(\frac{E - 1}{E + 1})\cos^{2}(\alpha) = n^{2} - \sin^{2}(\alpha)$$

$$\Leftrightarrow n = \sqrt{\frac{E-1}{E+1}} \cos^2(\alpha) + \sin^2(\alpha)$$

$$E = \frac{n^2 \cos \alpha - \sqrt{n^2 - \sin^2 \alpha}}{n^2 \cos \alpha + \sqrt{n^2 - \sin^2 \alpha}}$$

$$E(n^{2}\cos x + \sqrt{1}) = n^{2}\cos x - \sqrt{1} \quad |\sin^{2} x|$$

$$E(E-1)\cos x = -(E+1)\frac{1}{n^{2}}\sqrt{1} \quad |(-1)^{2}| \cdot |(E+1)|$$

$$E(E-1)^{2}\cos^{2}x = \frac{1}{n^{4}}(n^{2} - \sin^{2}x) = \frac{1}{n^{2}} - \frac{1}{n^{4}}\sin^{2}x \quad |\sin^{2}x| = \frac{1}{n^{4}}$$

$$E n' - \left(\frac{E-1}{EM}\right)^2 \cos^2 \alpha - n^2 + \sin^2 \alpha = 0 \qquad n^2 = x$$

$$\Leftrightarrow \times^{1} - \left(\frac{E+1}{E-1}\right)^{2} \frac{1}{\cos^{2}\alpha} \times + \left(\frac{E+1}{E-1}\right)^{2} + \cos^{2}(\alpha) = 0$$

$$\Leftrightarrow \times_{12} = \left(\frac{E+1}{E-1}\right)^{2} \frac{1}{2\cos^{2}\alpha} + \sqrt{\frac{1}{4\cos^{2}\alpha}\left(\frac{E+1}{E-1}\right)^{4} - \left(\frac{E+1}{E-1}\right)^{4} + \cos^{2}(\alpha)}$$