Hw#9

Prove the following Jones Matrix or a linear polarizer at an angle θ (see Eq. 14-15 in p. 344).

$$\mathbf{M} = \begin{bmatrix} \cos^2 \theta & \sin \theta \cos \theta \\ \sin \theta \cos \theta & \sin^2 \theta \end{bmatrix} \quad \text{linear polarizer, TA}$$