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1. Eq. (3) should appear as follows:

$$(\mathrm{Re}\ Y_k)\left(k(k+1)Y_k + \frac{d}{dy}(1-y^2)\frac{d}{dy}Y_k\right) = k^2 Y_k^2 + (1-y^2)\left(\frac{d}{dy}Y_k\right)^2, \tag{3}$$