Figure 1: Profiles of the velocity $v(r, t)$ and the shear stress $\tau(r, t)$ for generalized Burgers and Oldroyd-B fluids, for $R_1 = 0.3$, $R_2 = 0.6$, $f = -2$, $\nu = 0.005$, $\mu = 5$, $\lambda_1 = 8$, $\lambda_2 = 0.00001$, $\lambda_3 = 4$, $\lambda_4 = 0.00001$ and different values of $t$.

Figure 2: Profiles of the velocity $v(r, t)$ and the shear stress $\tau(r, t)$ for generalized Burgers and Newtonian fluids, for $R_1 = 0.3$, $R_2 = 0.6$, $f = -2$, $\nu = 0.005$, $\mu = 5$, $\lambda_1 = 0.00001$, $\lambda_2 = 0.00001$, $\lambda_3 = 0.00001$, $\lambda_4 = 0.00001$ and different values of $t$. 