(a) $t =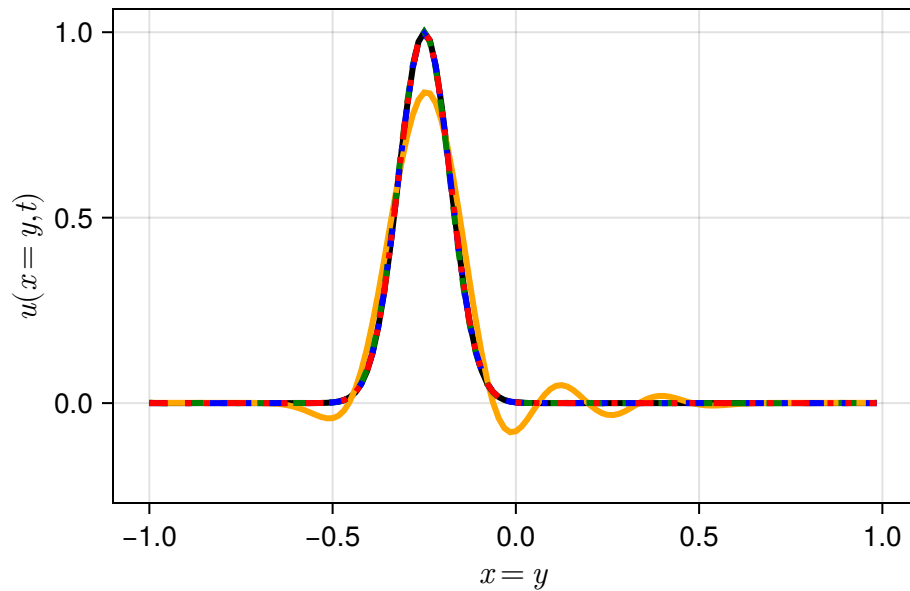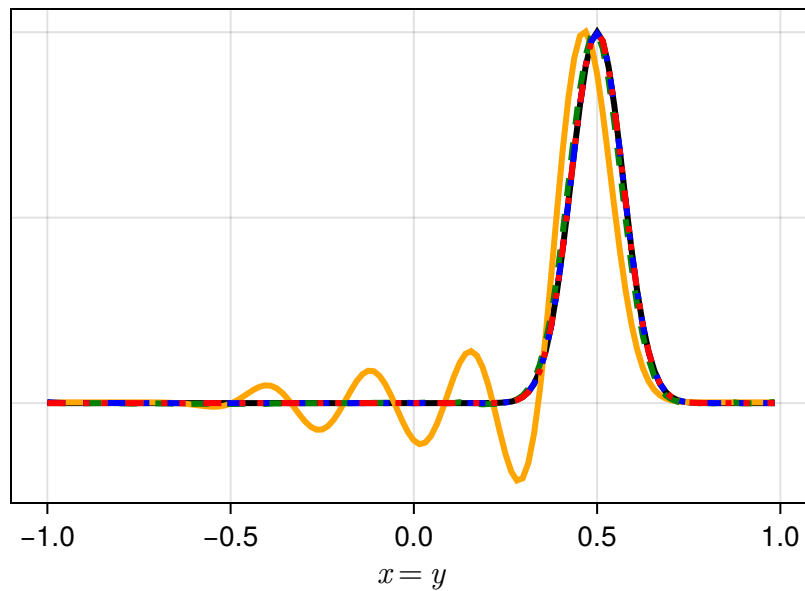 1.0$ (b) $t = 4.0$