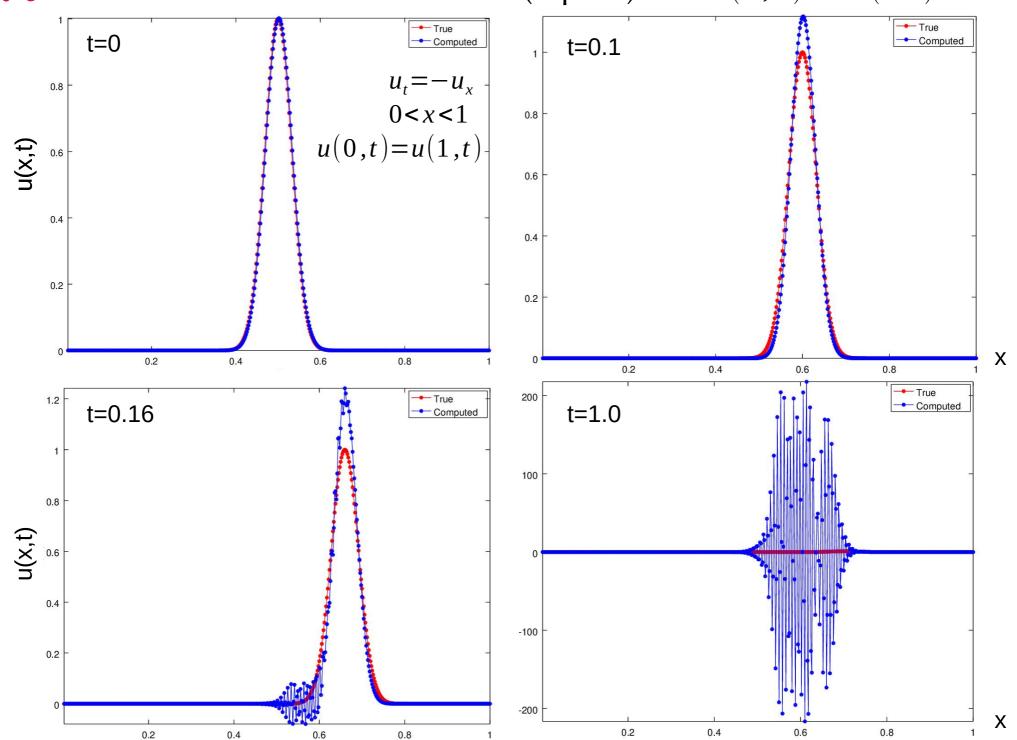
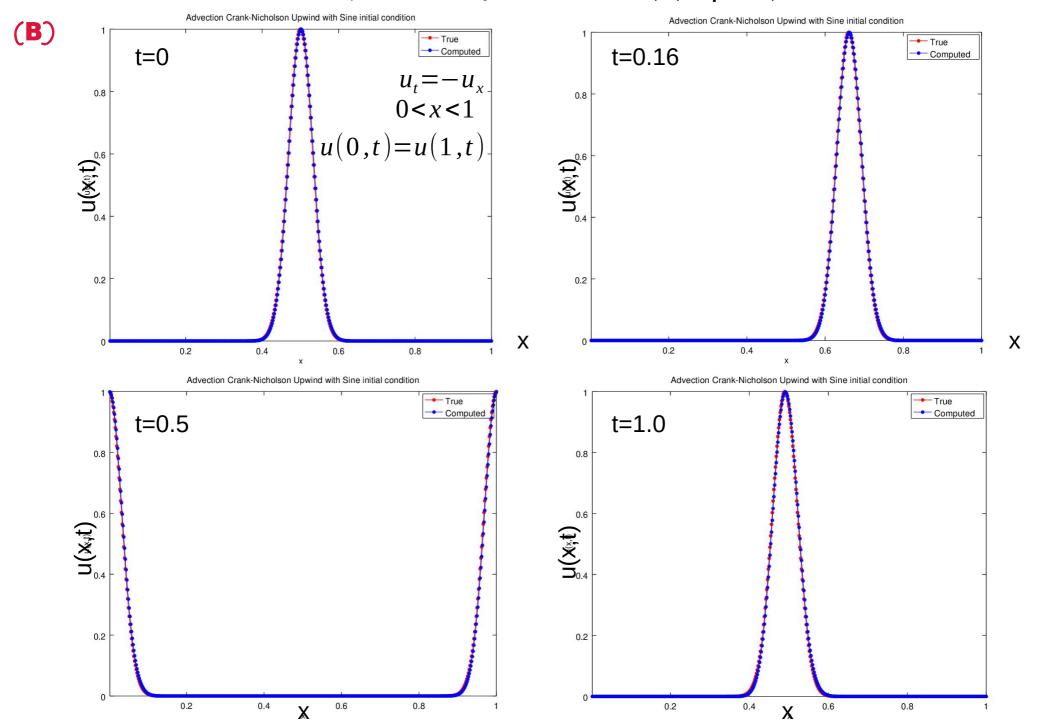
(A)

Advection Forward Euler scheme (explicit) with $u(x,0) = \sin(\pi x)^{100}$

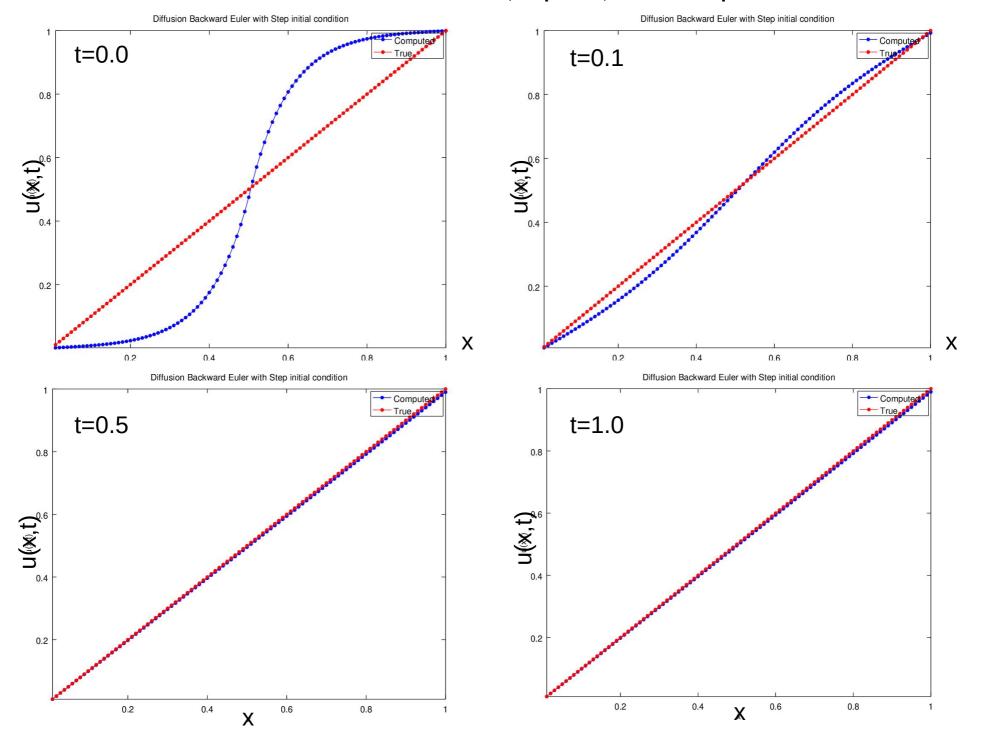


Advection Crank-Nicholson (3rd order Upwind scheme) (implicit) with $u(x,0) = \sin(\pi x)^{100}$





Diffusion Backward Euler scheme (implicit) with Step Initial condition





Diffusion Crank-Nicholson scheme (implicit) with Step Initial condition

