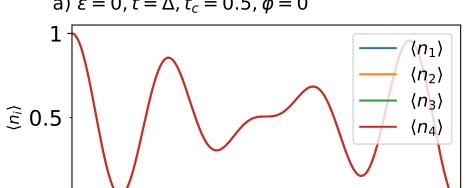
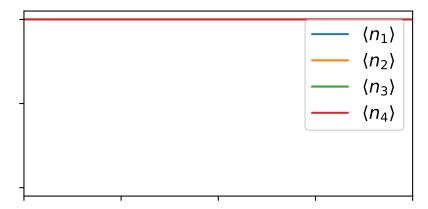
## Initial state |1111)

a) 
$$\varepsilon = 0$$
,  $t = \Delta$ ,  $t_c = 0.5$ ,  $\varphi = 0$ 

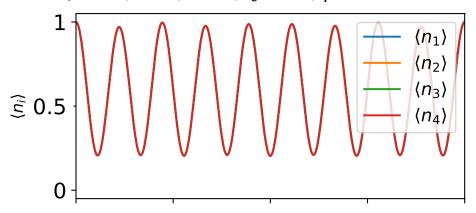


b) 
$$\varepsilon = 0$$
,  $t = \Delta$ ,  $t_c = 0.5$ ,  $\varphi = \pi$ 

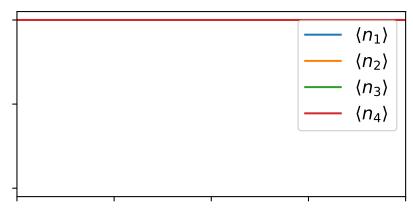


c) 
$$\varepsilon = 1$$
,  $t = 1$ ,  $\Delta = 2$ ,  $t_c = 0.5$ ,  $\varphi = 0$ 

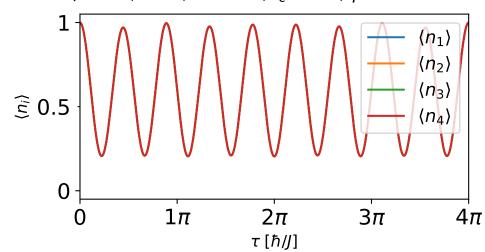
0



d) 
$$ε = 1$$
,  $t = 1$ ,  $Δ = 2$ ,  $t_c = 0.5$ ,  $φ = π$ 



e) 
$$\varepsilon = 1$$
,  $t = 1$ ,  $\Delta = -1$ ,  $t_c = 0.5$ ,  $\varphi = 0$ 



f)  $\varepsilon = 1$ , t = 1,  $\Delta = -1$ ,  $t_c = 0.5$ ,  $\varphi = \pi$ 

