

① Sketch the following signal:

(5 points < 2.5 points each)

② $a[n] = u[n] - u[n-5]$

③ $c[n] = \sum_{k=-\infty}^{\infty} k \delta[n-k]$

② Find the even and odd components of the following discrete time signal:

$$x[n] = \begin{cases} 4-n & 0 \leq n \leq 4 \\ 0 & \text{otherwise.} \end{cases}$$