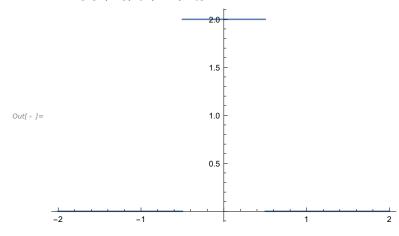
$In[\circ] := F[x_, \alpha_] = (UnitStep[x + 0.5] - UnitStep[x - 0.5]) * \alpha$

 $Out[\circ] = \alpha (-UnitStep[-0.5 + x] + UnitStep[0.5 + x])$

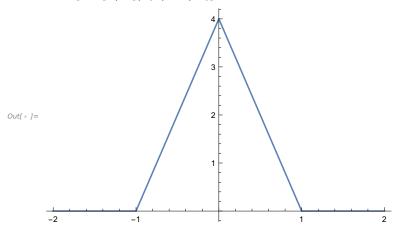
 $In[*] := Plot[F[x, 2], \{x, -2, 2\}]$



 $ln[+]:= FAC[\Delta_{,\alpha_{,\alpha}}] = Convolve[F[x, \alpha], F[x, \alpha], x, \Delta]$

 $\textit{Out[$\circ$} \ \textit{]} = \ \alpha^2 \left(-2 \left(\left\{ \begin{array}{cc} \Delta & \Delta \geq 0 \\ 0 & \mathsf{True} \end{array} \right) + (-1.+\Delta) \ \mathsf{UnitStep} \left[-1.+\Delta \right] + (1.+\Delta) \ \mathsf{UnitStep} \left[1.+\Delta \right] \right) \right) + \left(-1.+\Delta \right) \left(-1.+\Delta$

In[•]:= Plot[FAC[t, 2], {t, -2, 2}]



$$ln[\cdot]:=\epsilon[\alpha_{-}]=Rationalize\Big[\frac{Integrate[FAC[x, \alpha]^{2}, \{x, -1, 1\}]}{FAC[0, \alpha]^{2}}\Big]$$

Out[• $j = \frac{2}{3}$