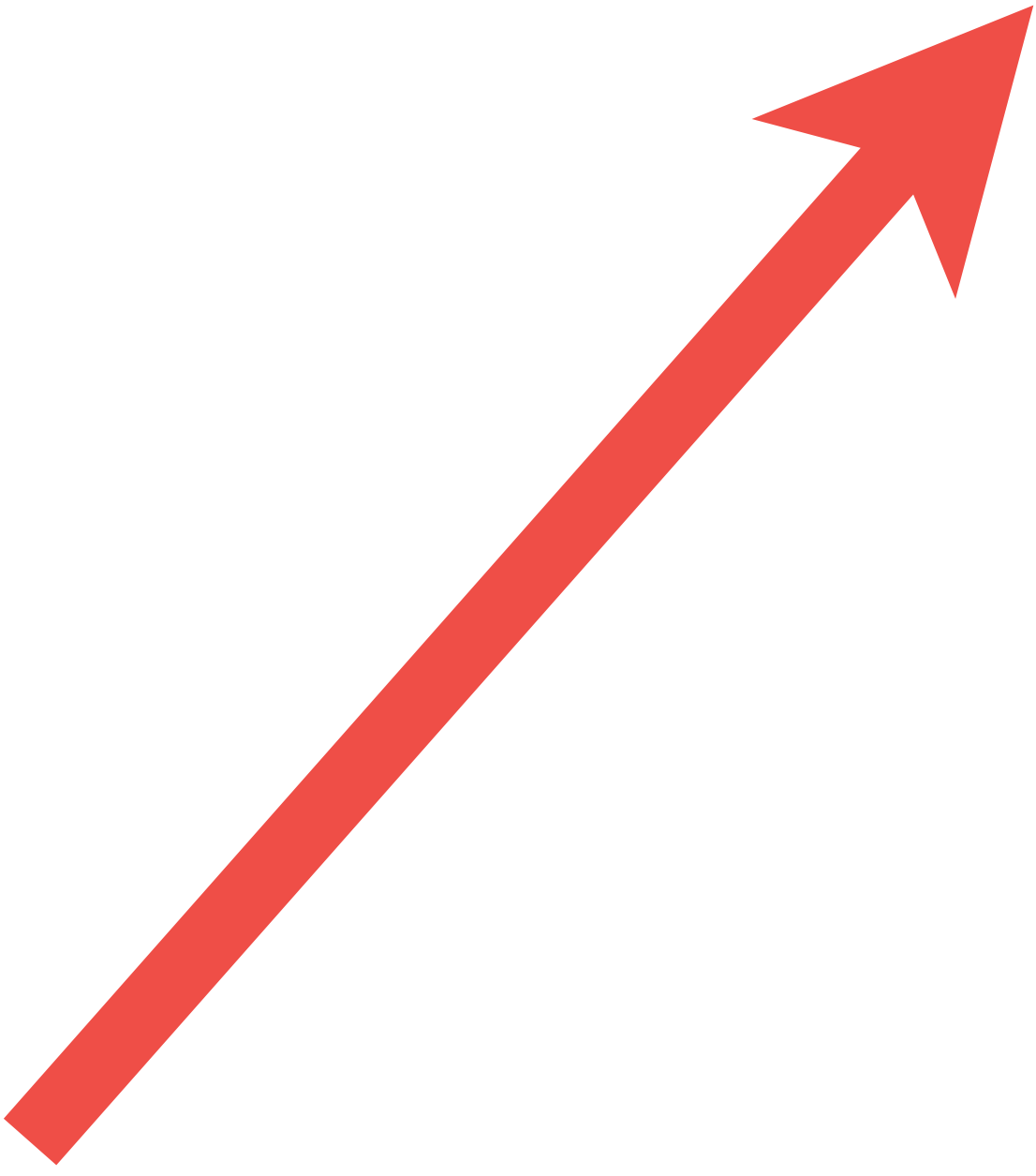
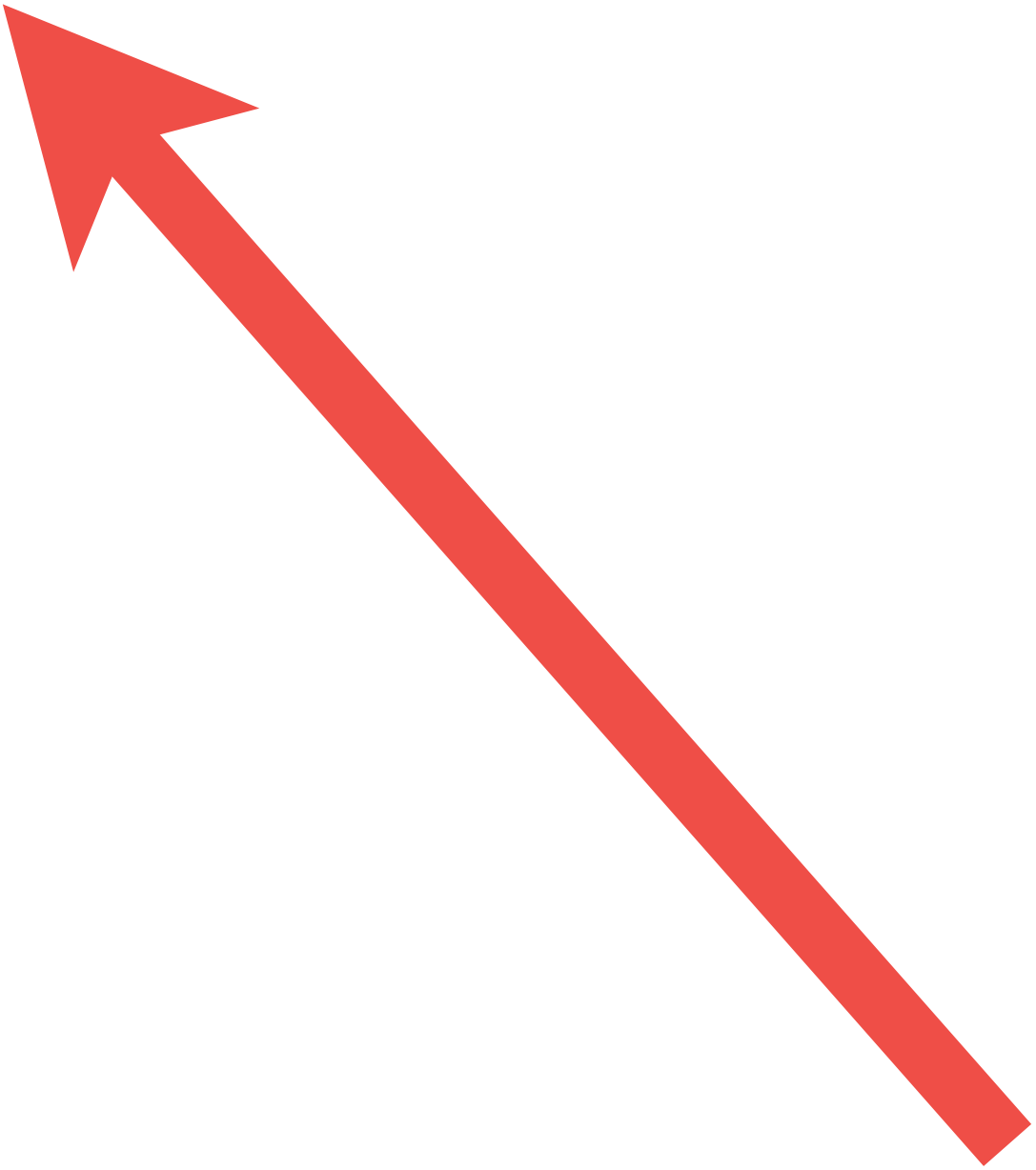
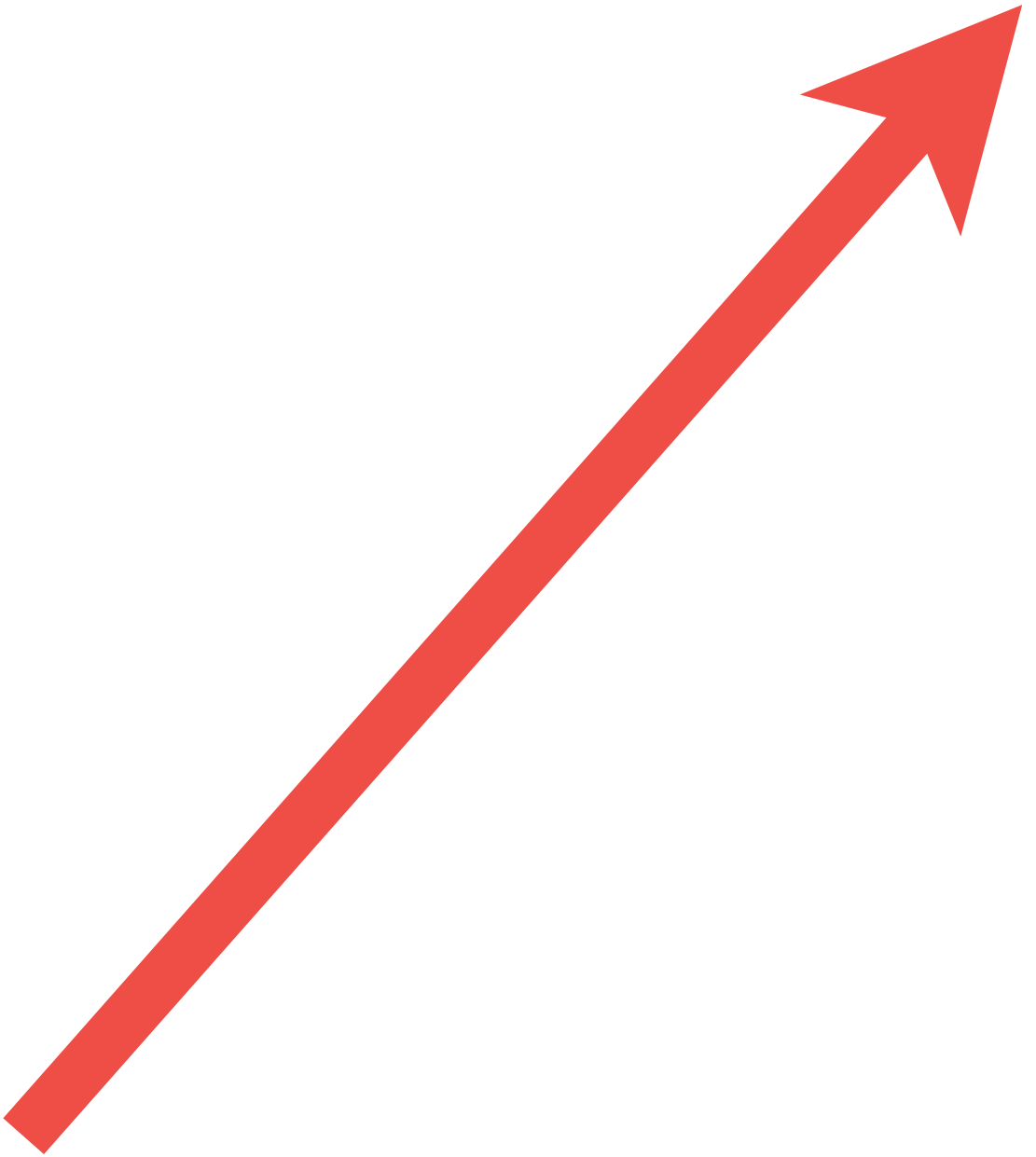
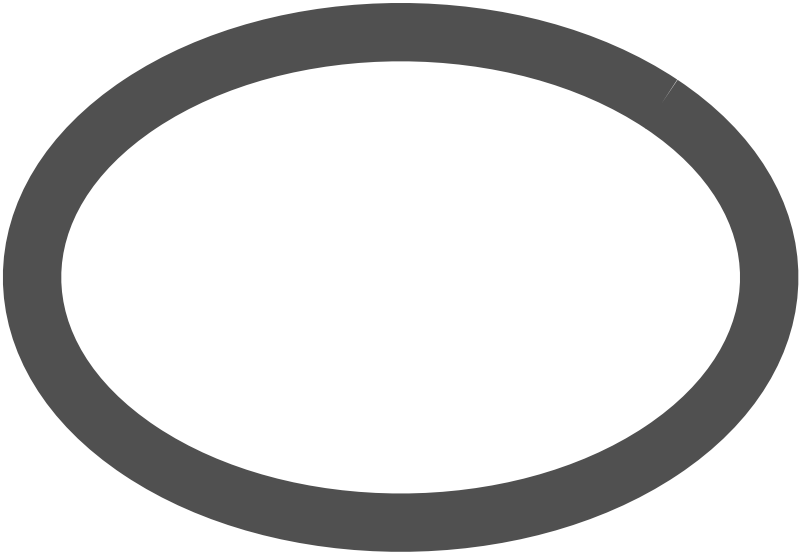
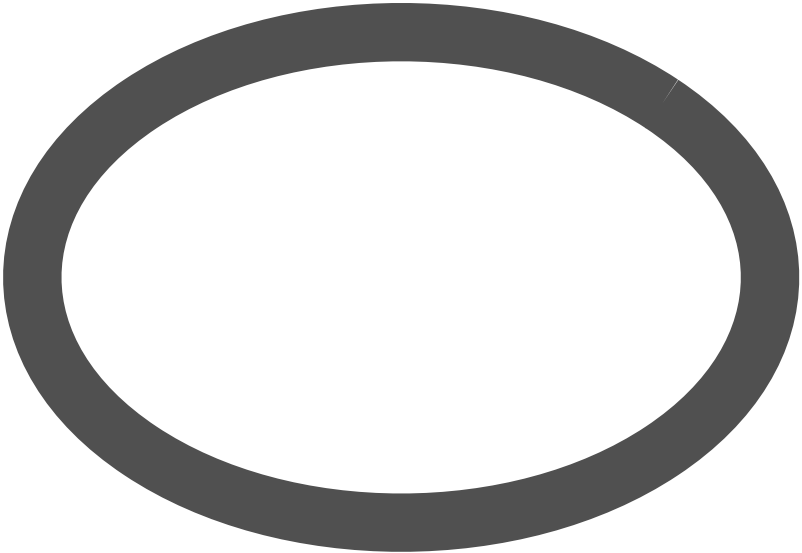
Averaging Neuron

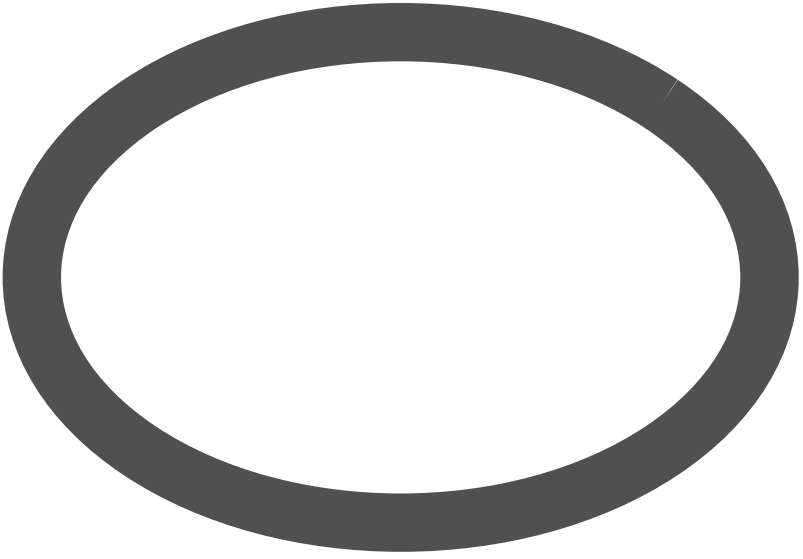


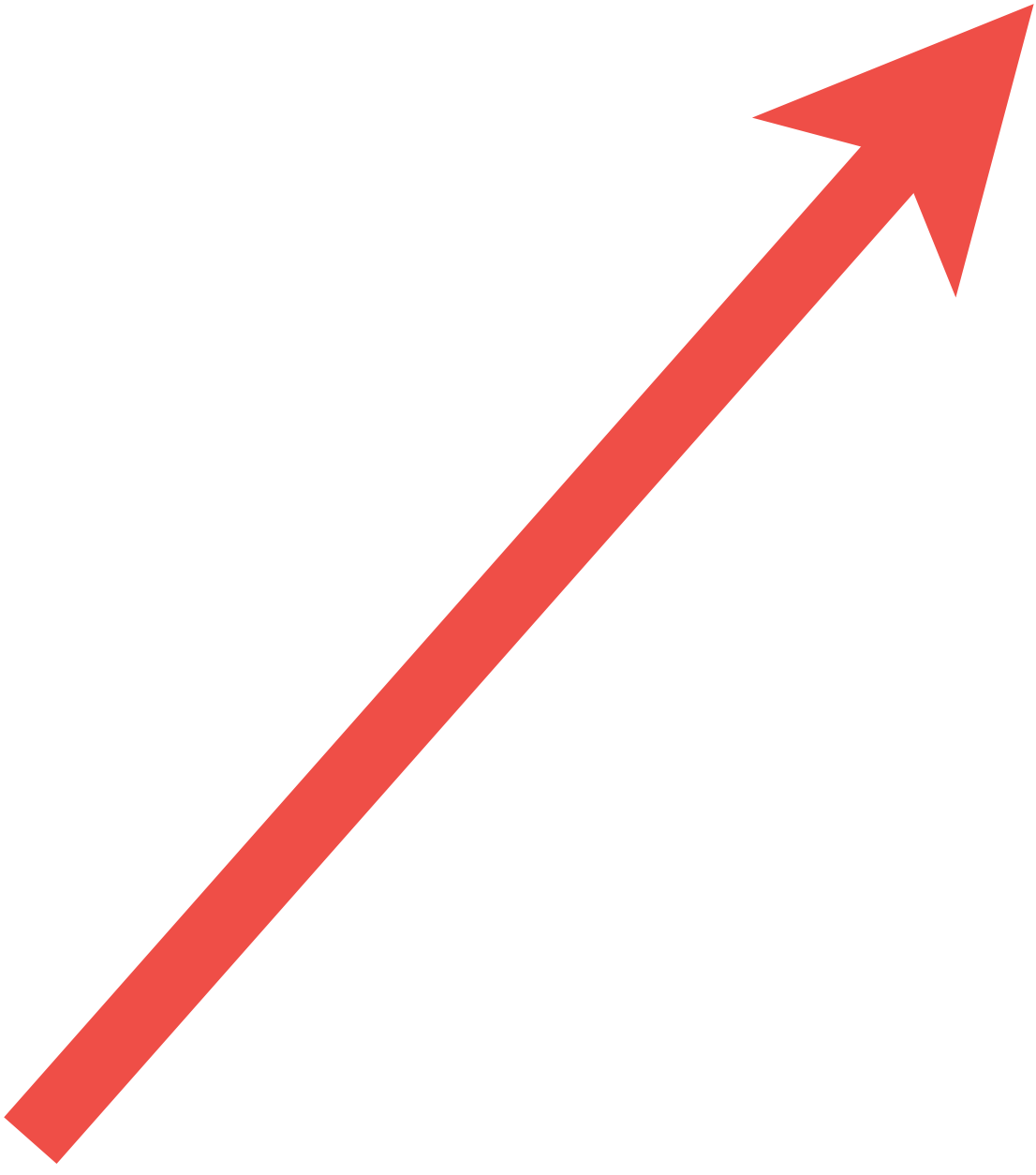


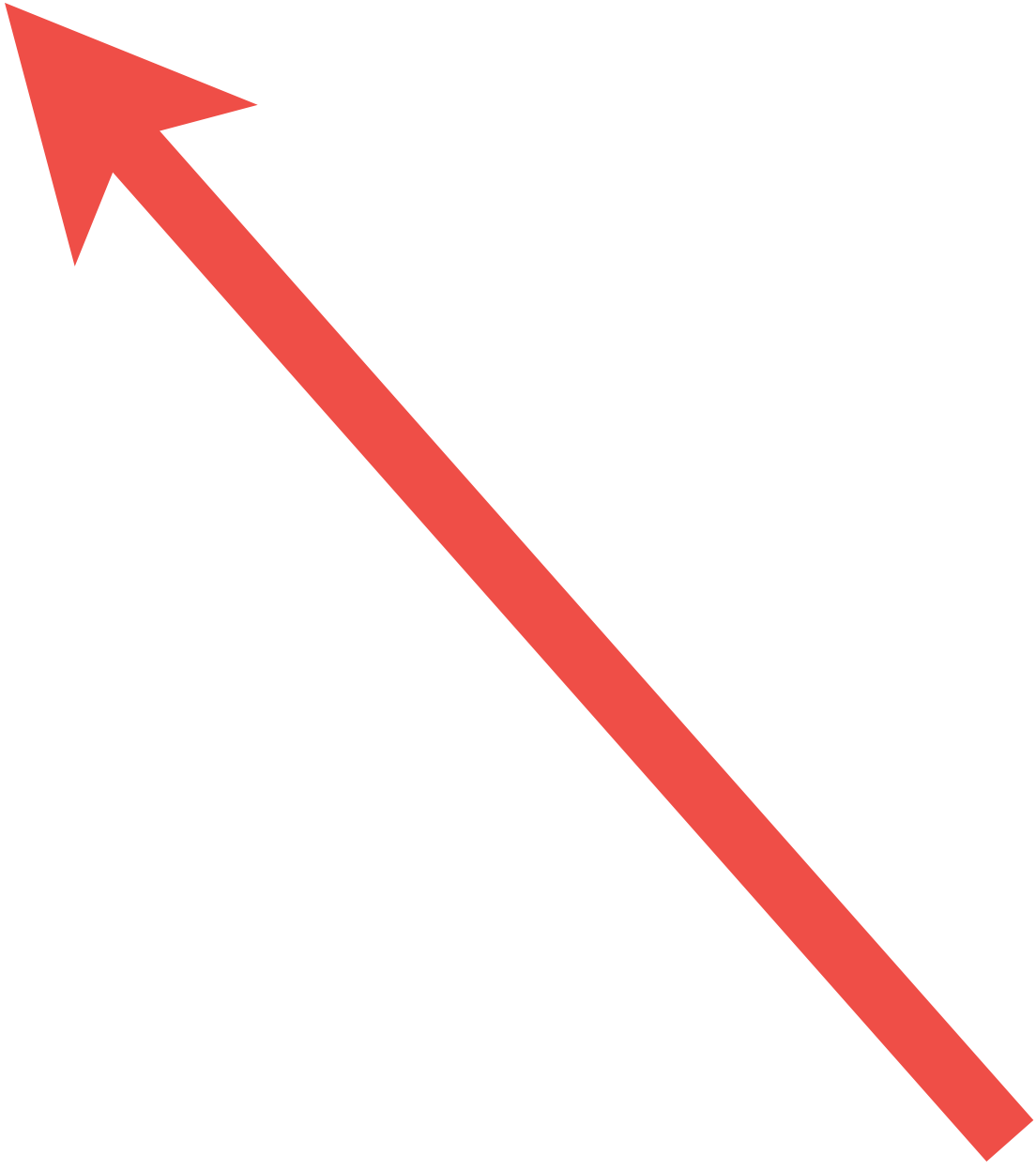


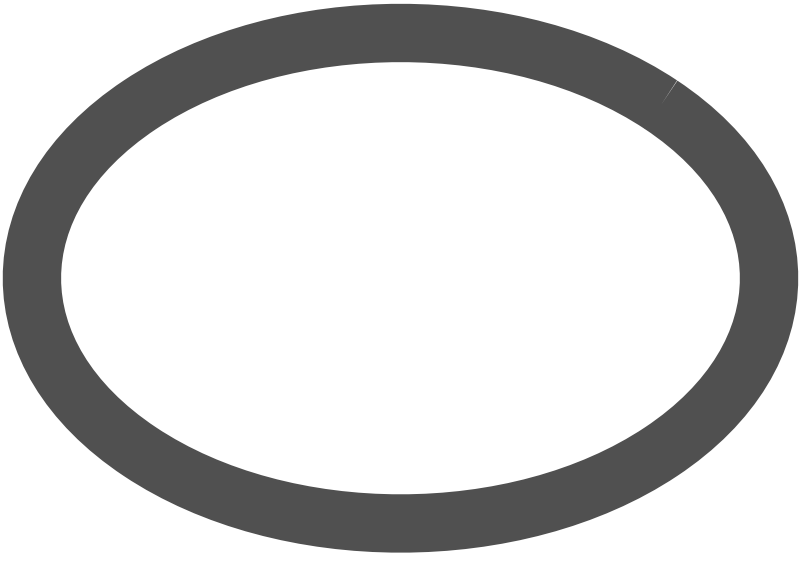


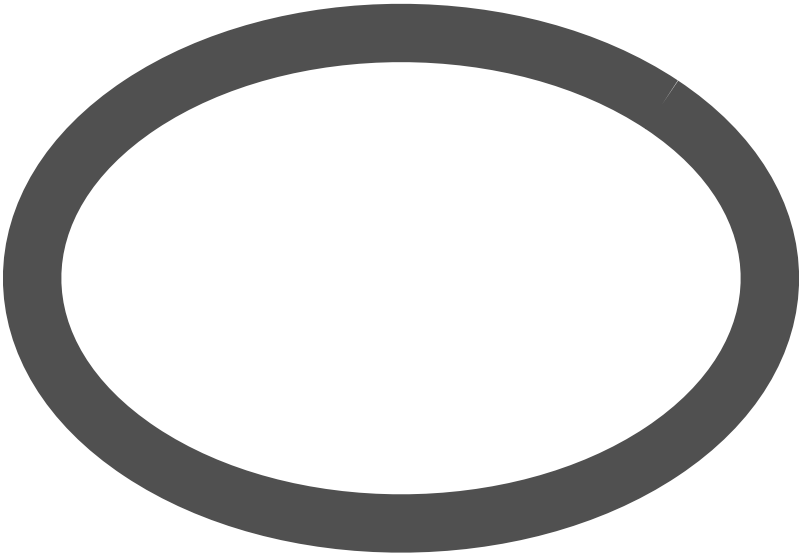


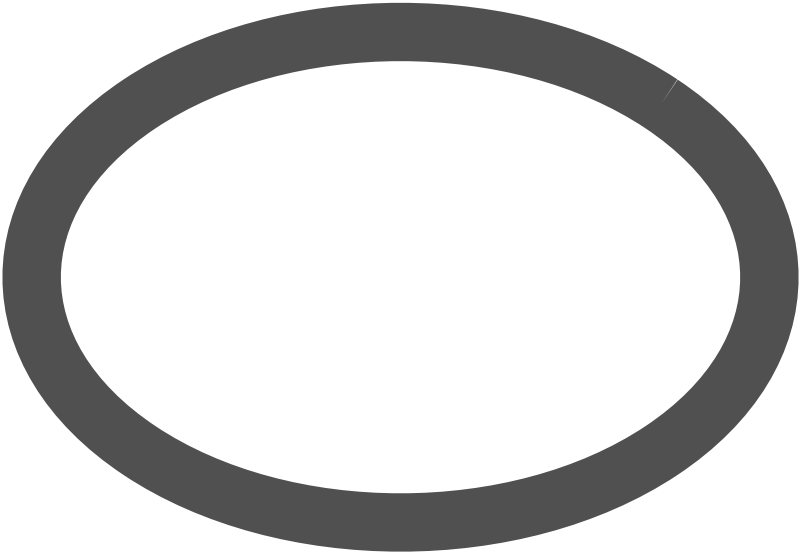


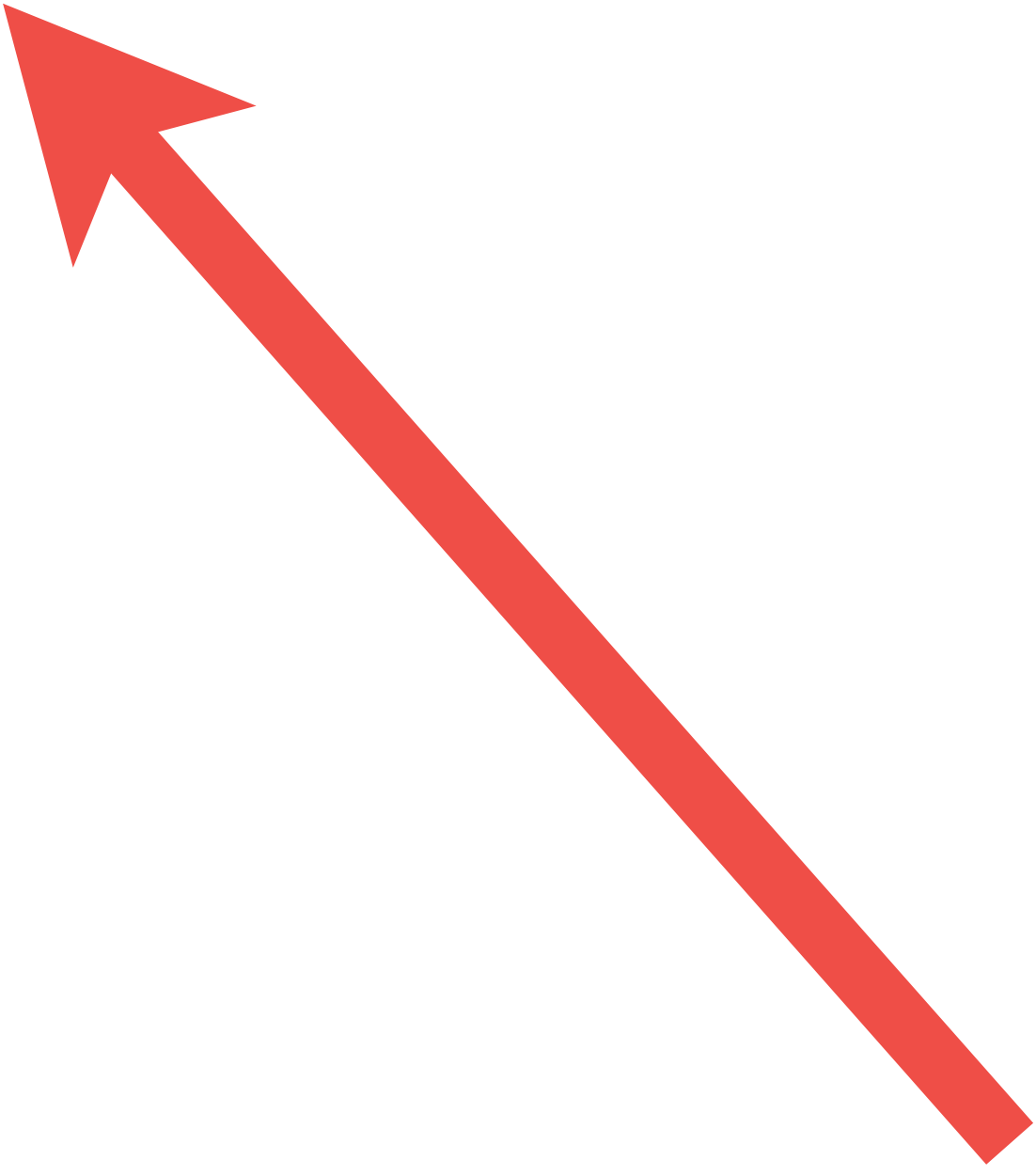


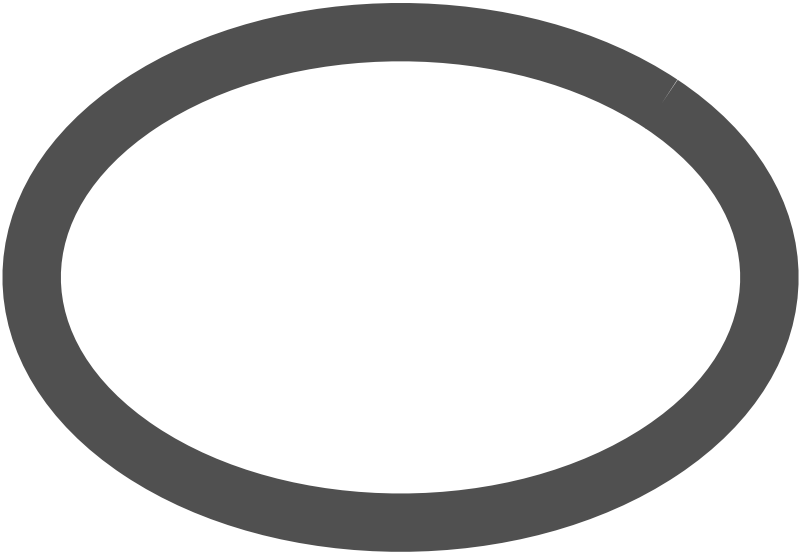


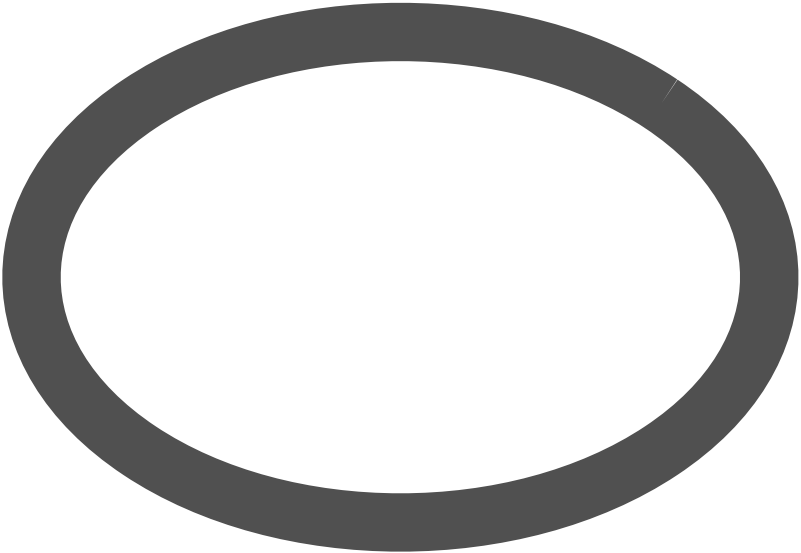




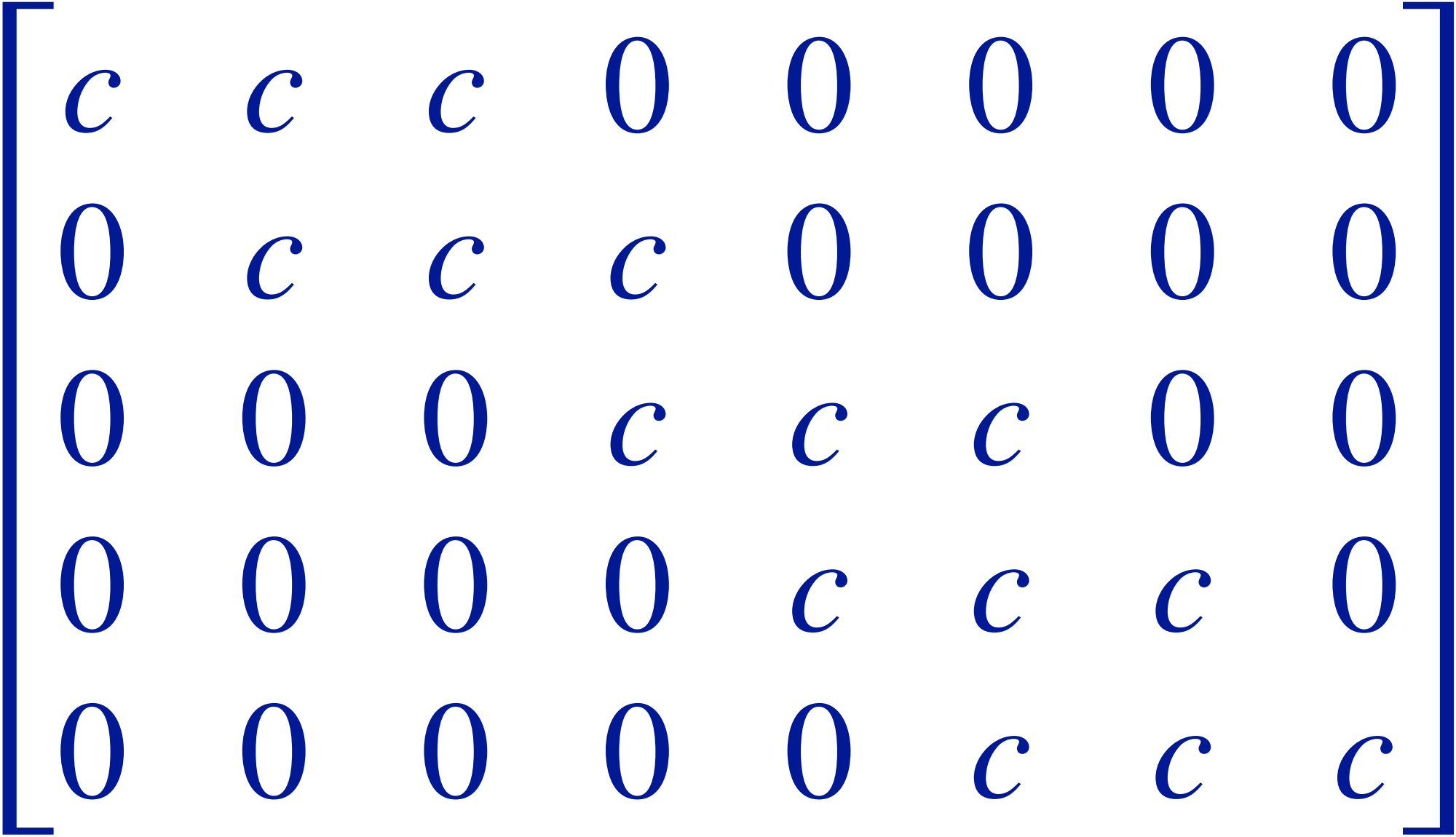








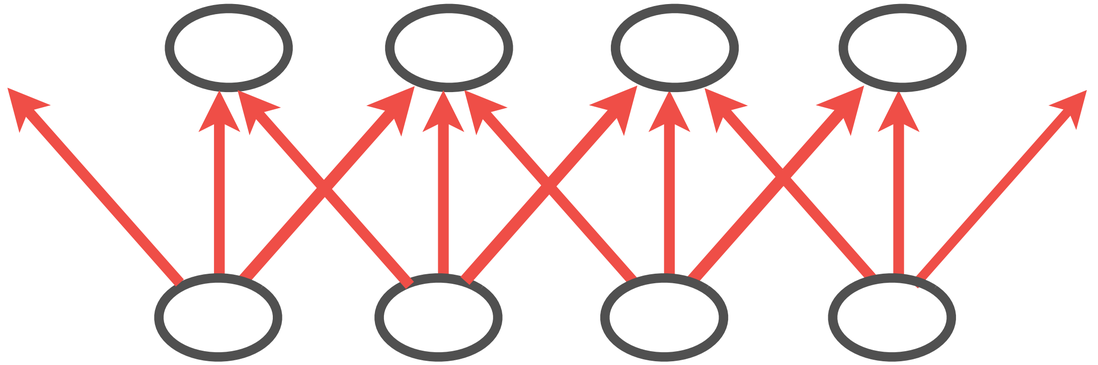
$$a_{ij} = \begin{cases} \dfrac{1}{2s+1} & |j-i| < \dfrac{s}{2} \\ 0 & o.w \end{cases}$$



$$h_i^{r+1} = \sigma\left(\frac{1}{2s+1}\sum_{j=-s}^{s} h_{i-j}^{r}\right)$$

Averaging Neuron

$$a_{ij} = \begin{cases} \dfrac{1}{2s+1} & |j-i| < \dfrac{s}{2} \\ 0 & o.w \end{cases}$$



$$\begin{bmatrix} c & c & c & 0 & 0 & 0 & 0 & 0 \\ 0 & c & c & c & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & c & c & c & 0 & 0 \\ 0 & 0 & 0 & 0 & c & c & c & 0 \\ 0 & 0 & 0 & 0 & 0 & c & c & c \end{bmatrix}$$

$$h_i^{r+1} = \sigma\left(\frac{1}{2s+1}\sum_{j=-s}^{s} h_{i-j}^{r}\right)$$

Max-Pooling (Neuron)