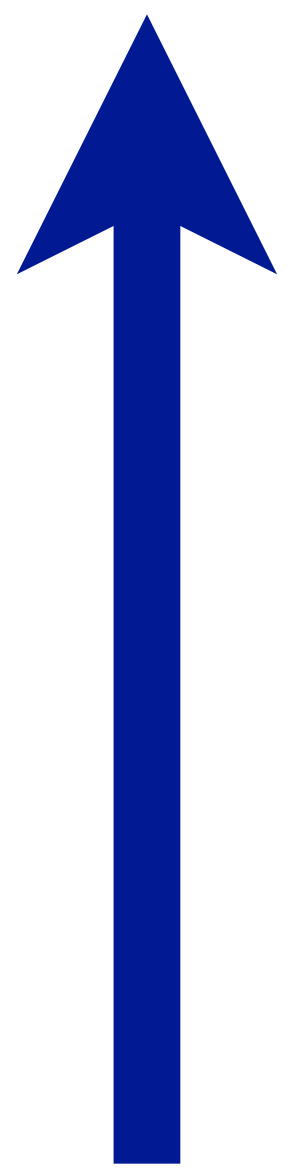
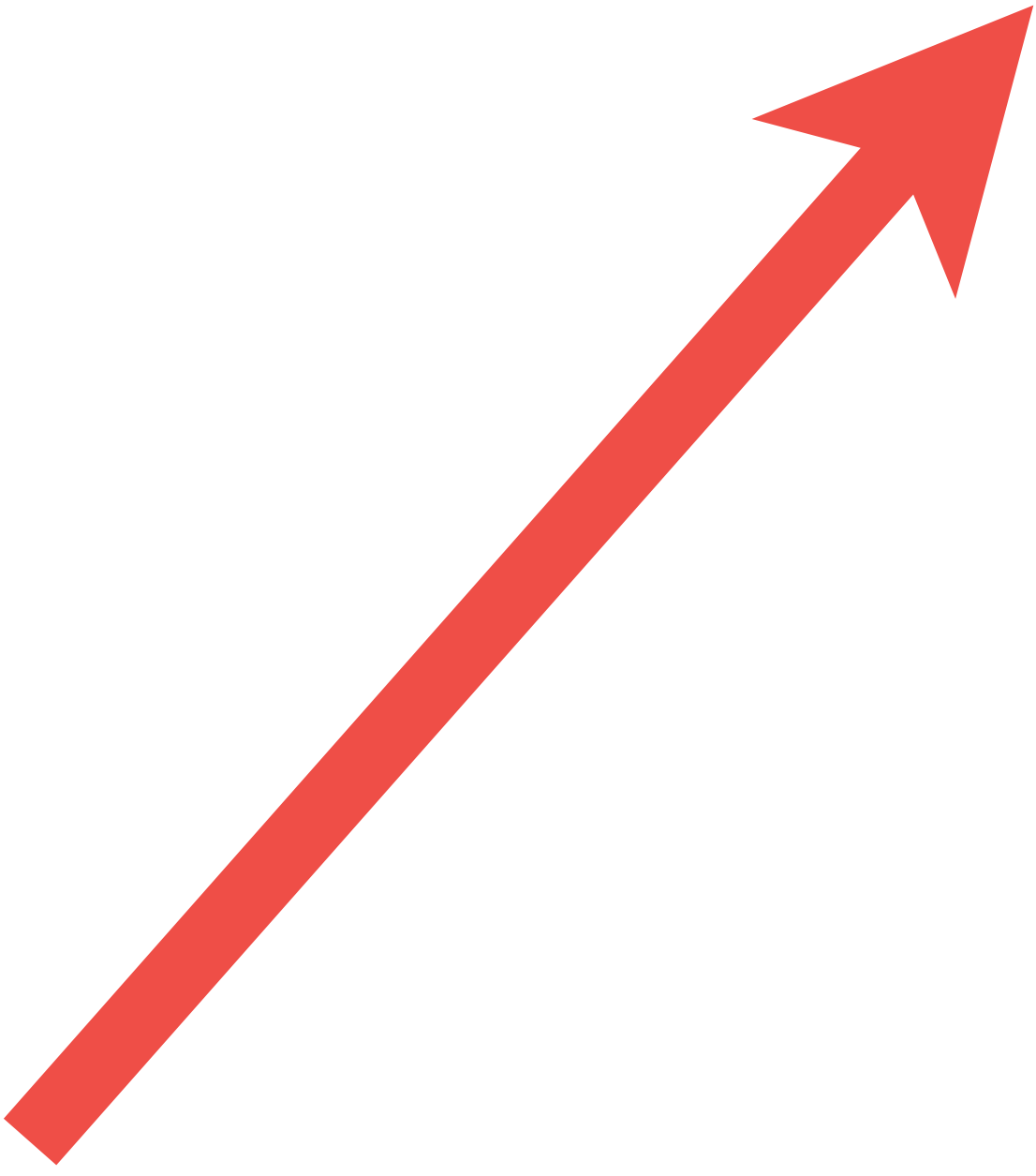
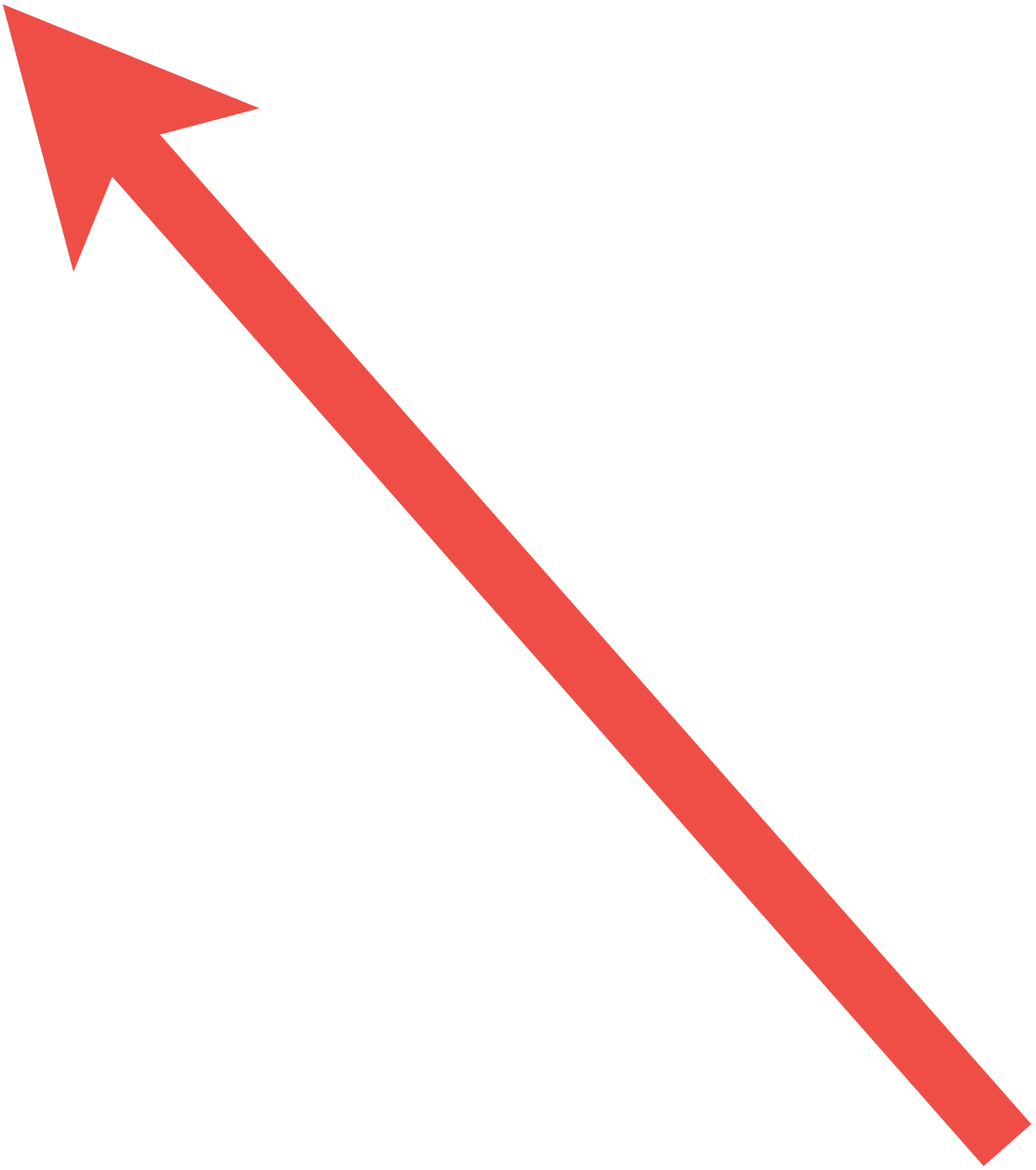
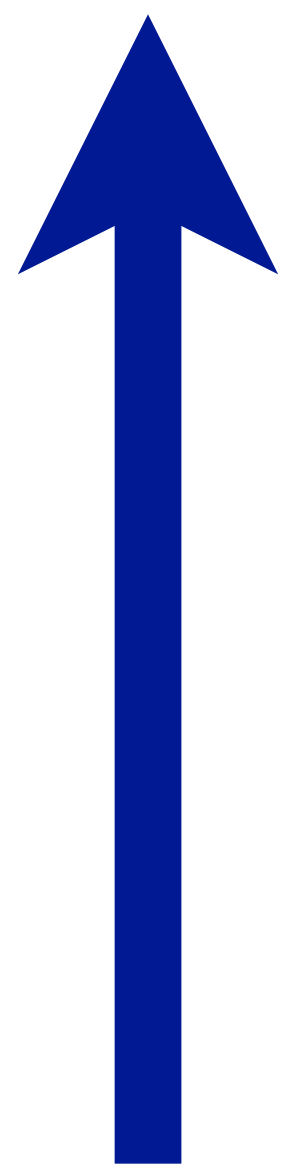
Parameter Symmetrization

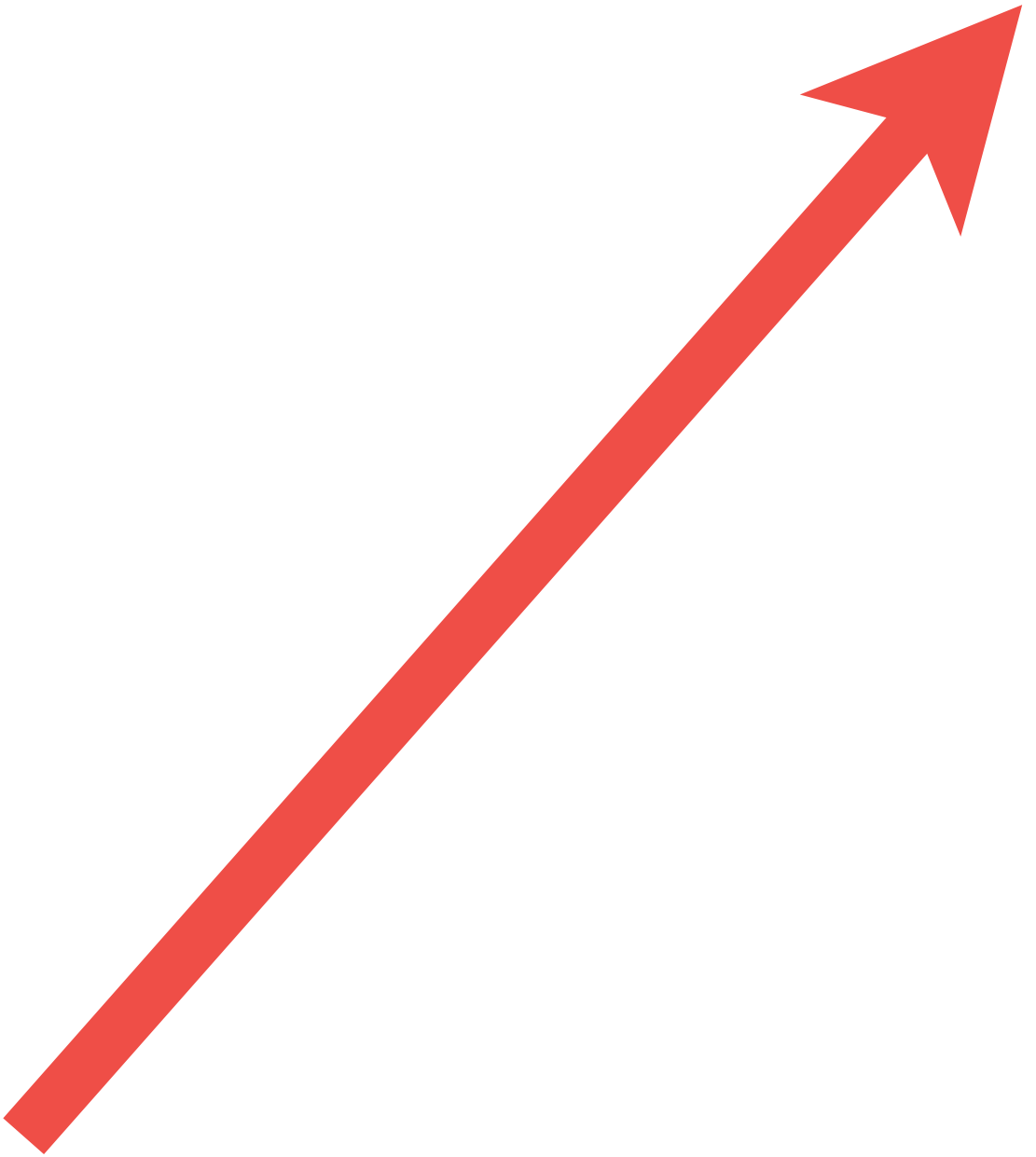
7

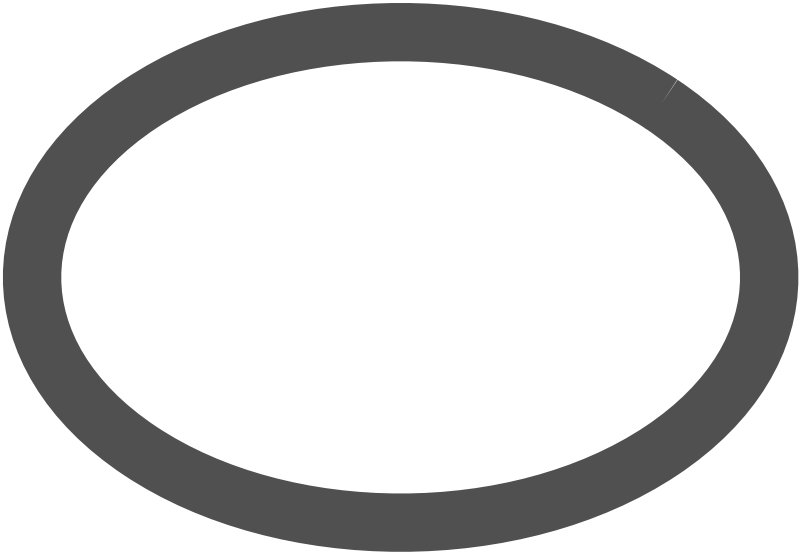


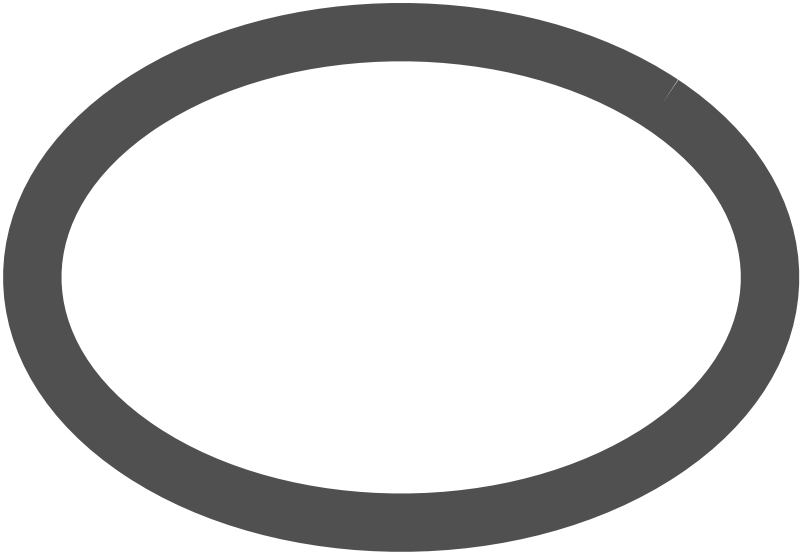


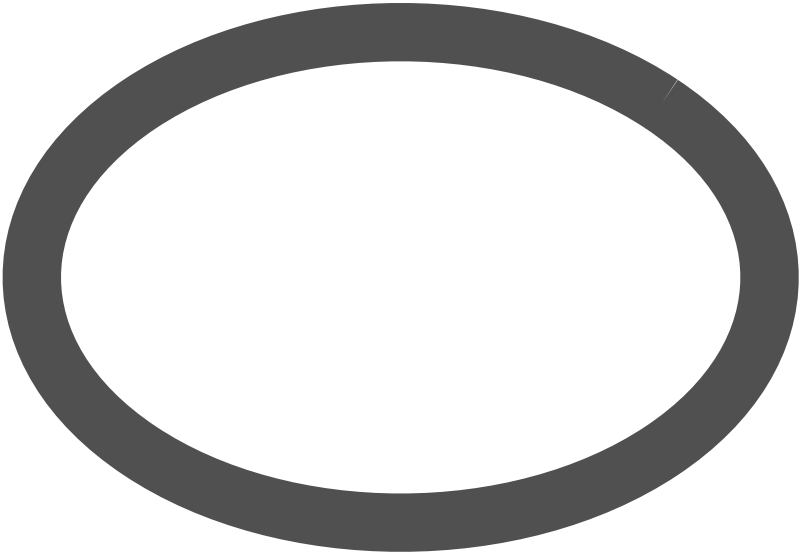


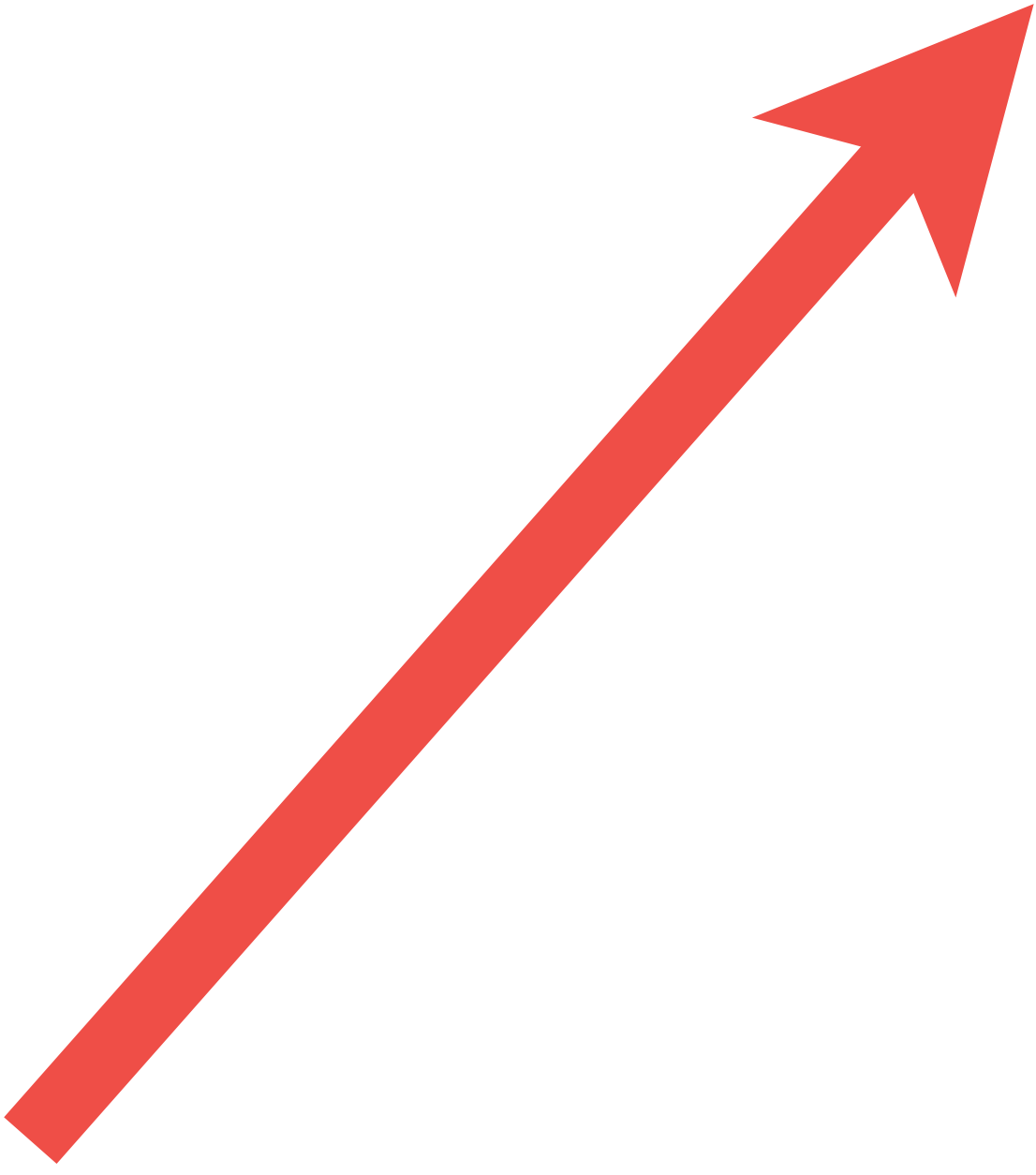


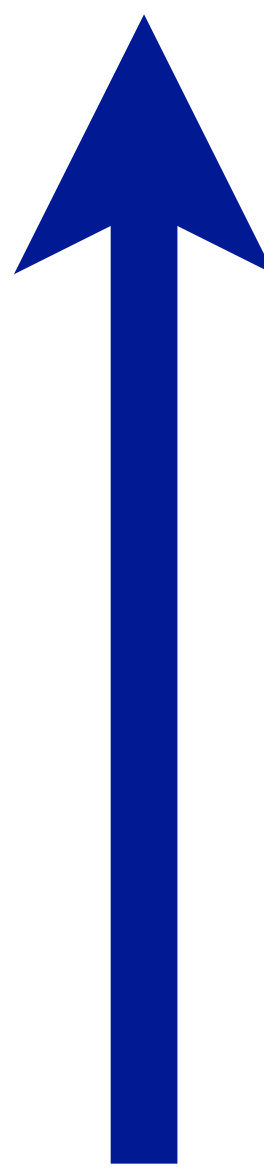


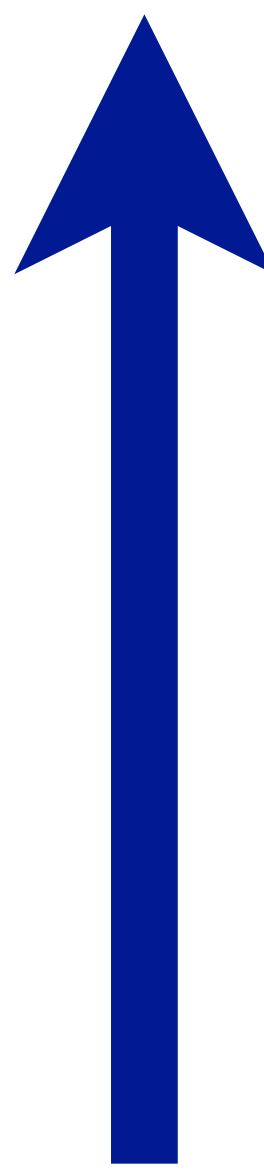


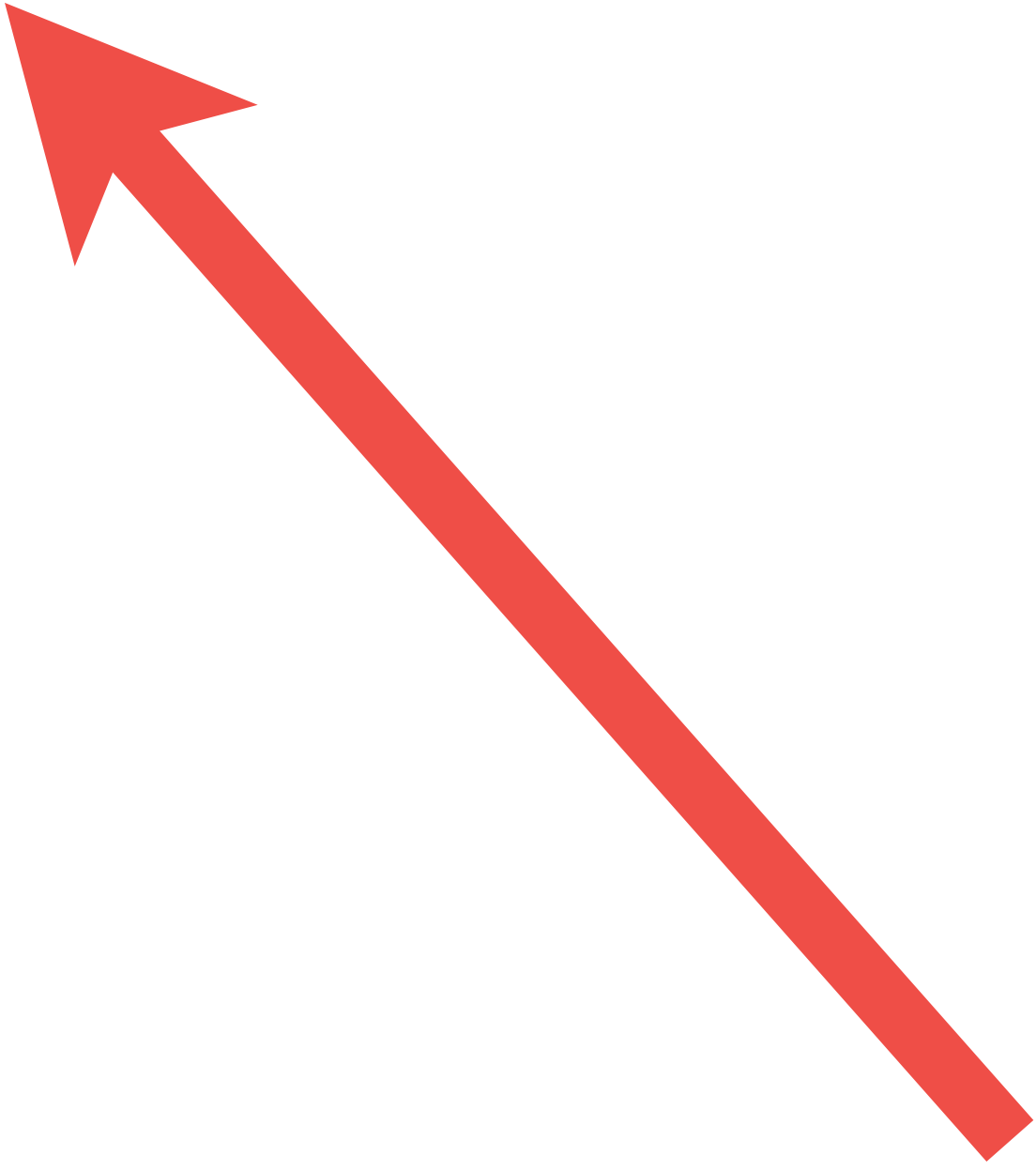


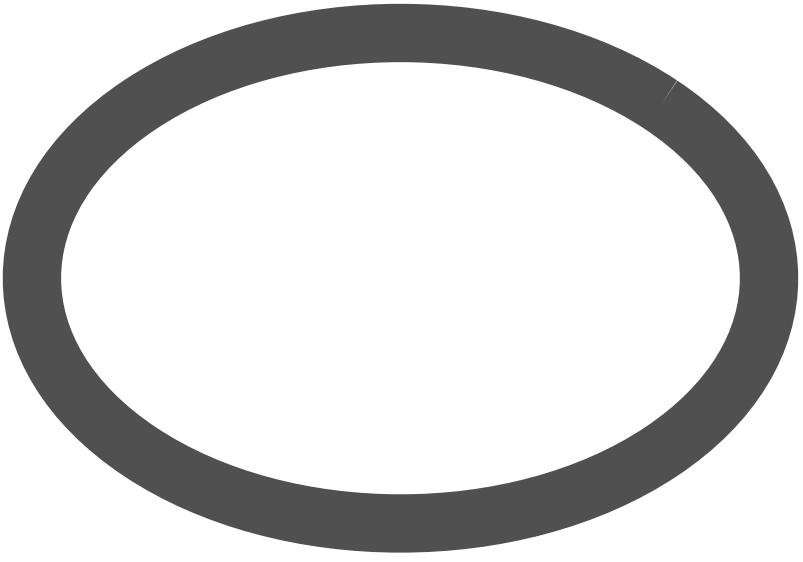


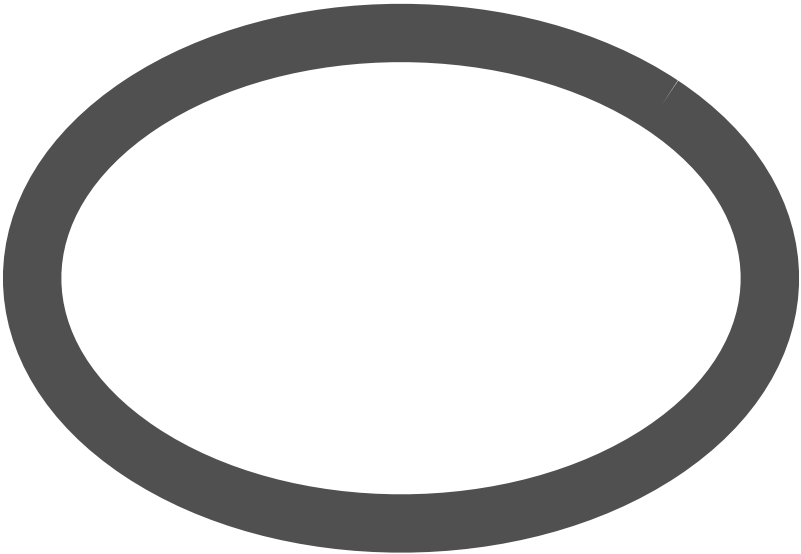


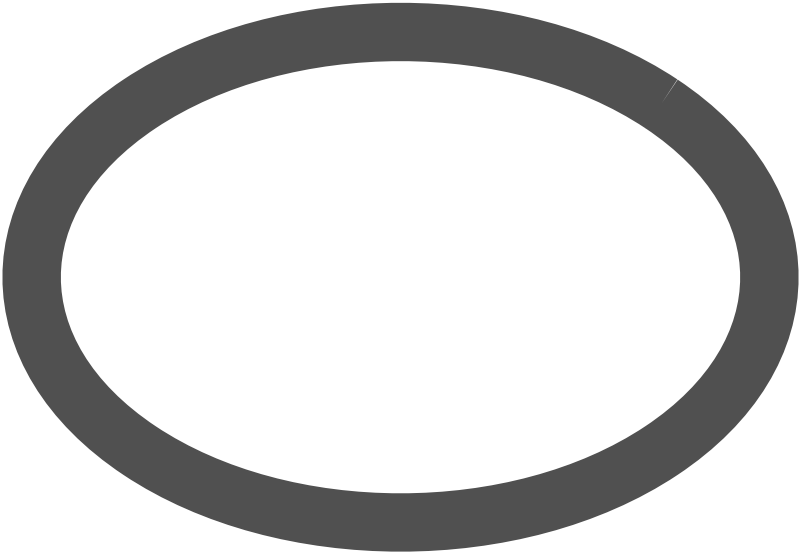


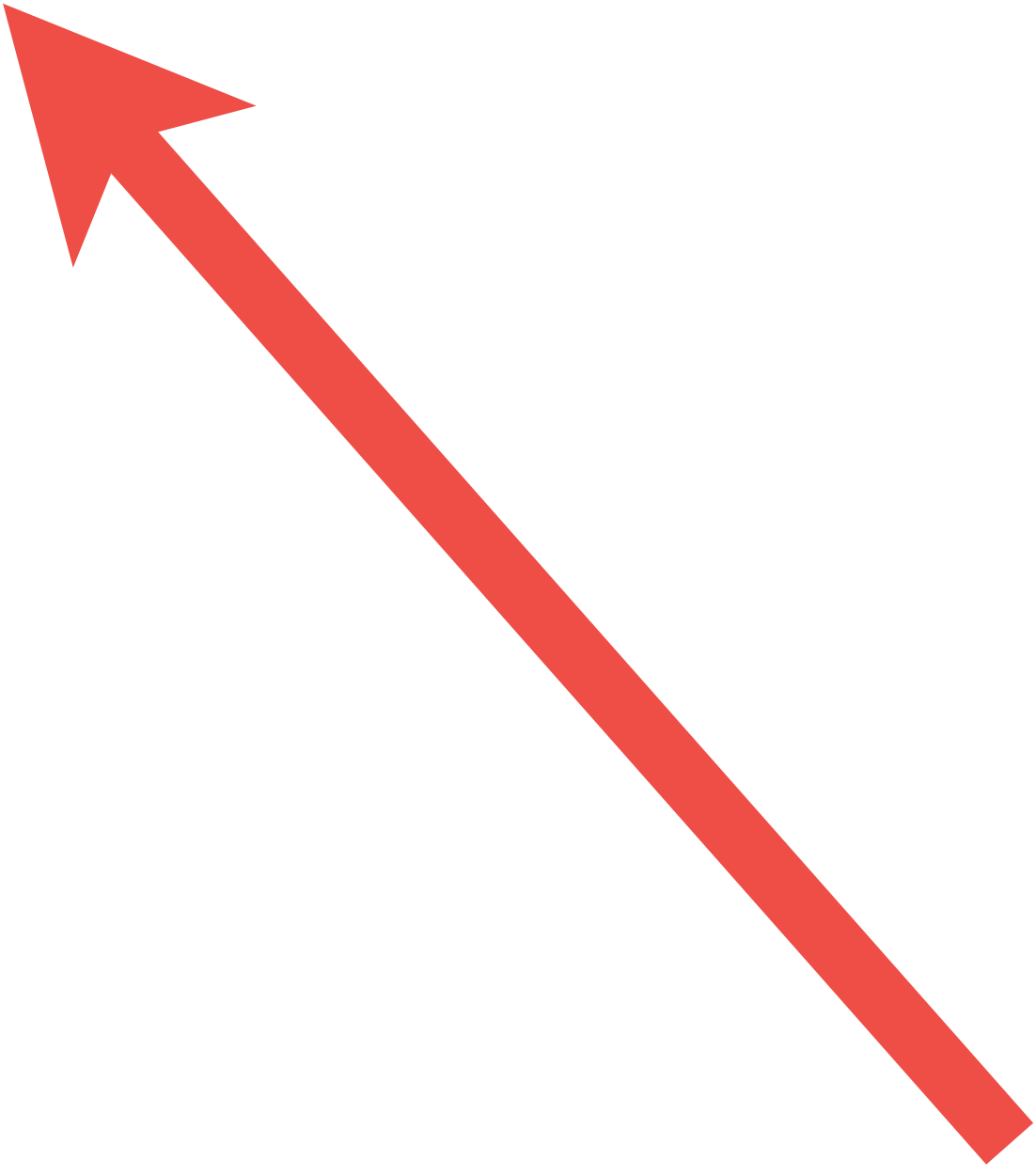


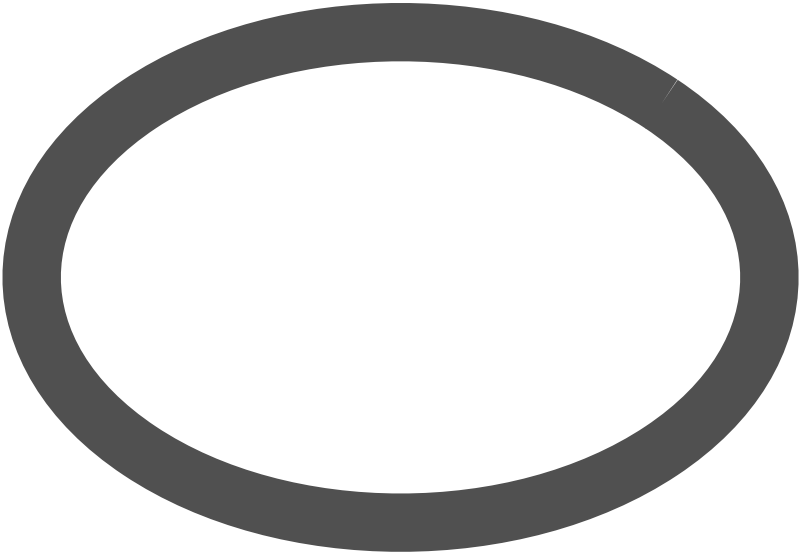


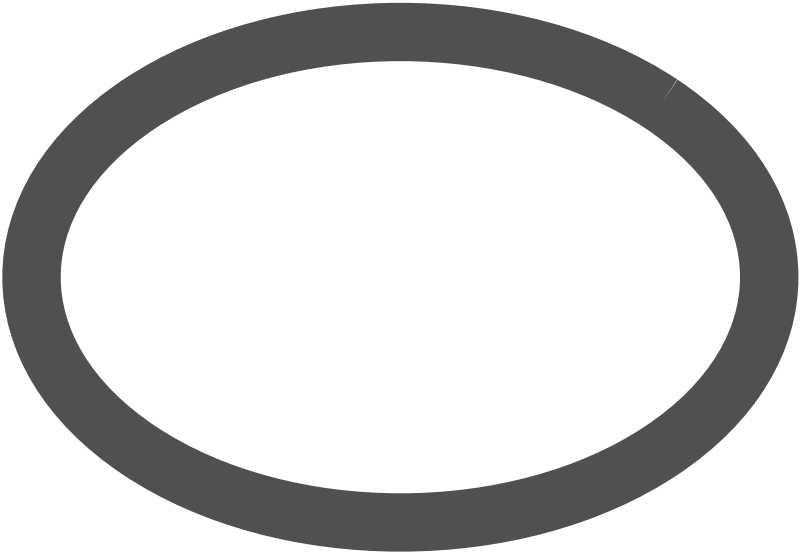


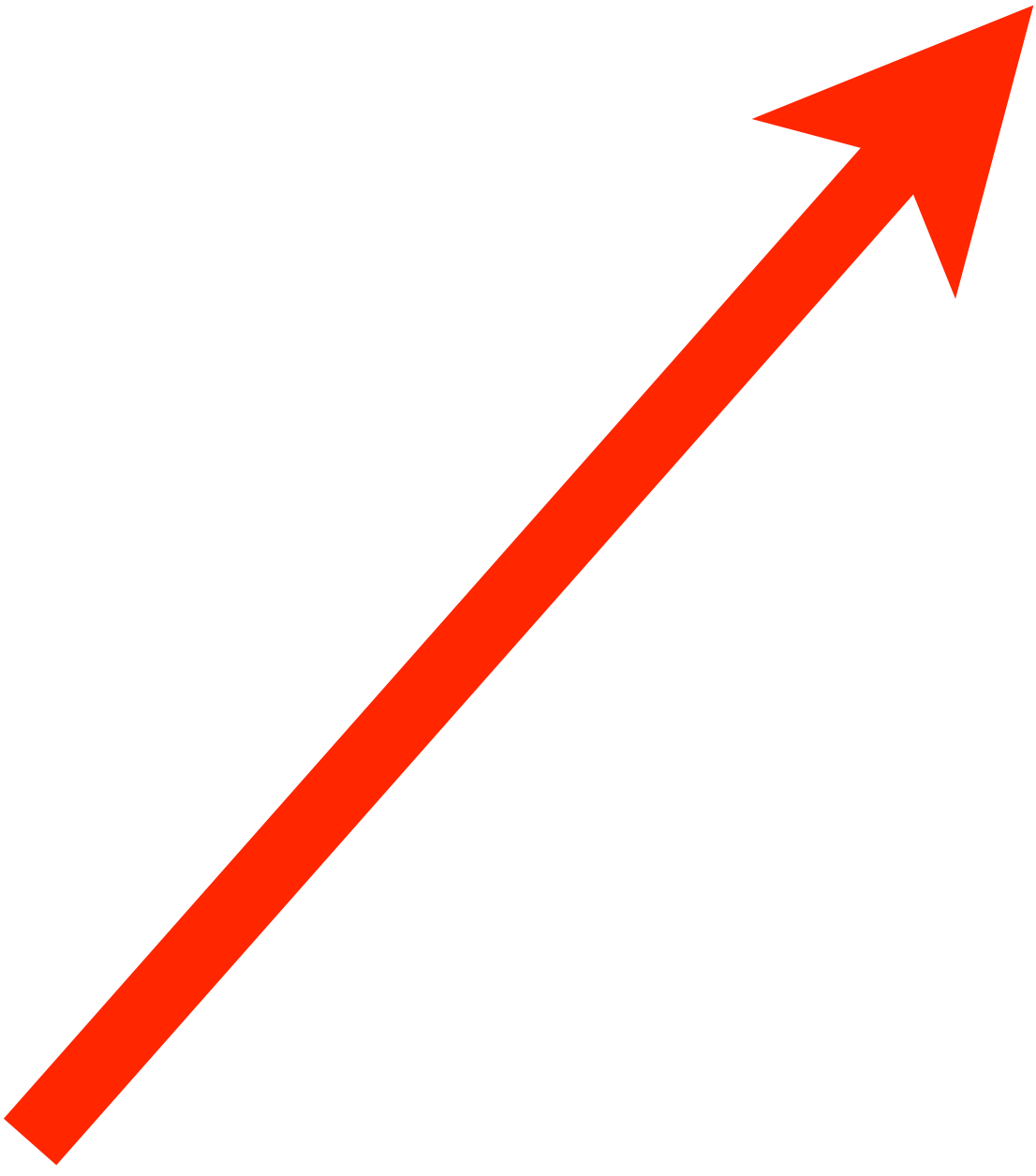




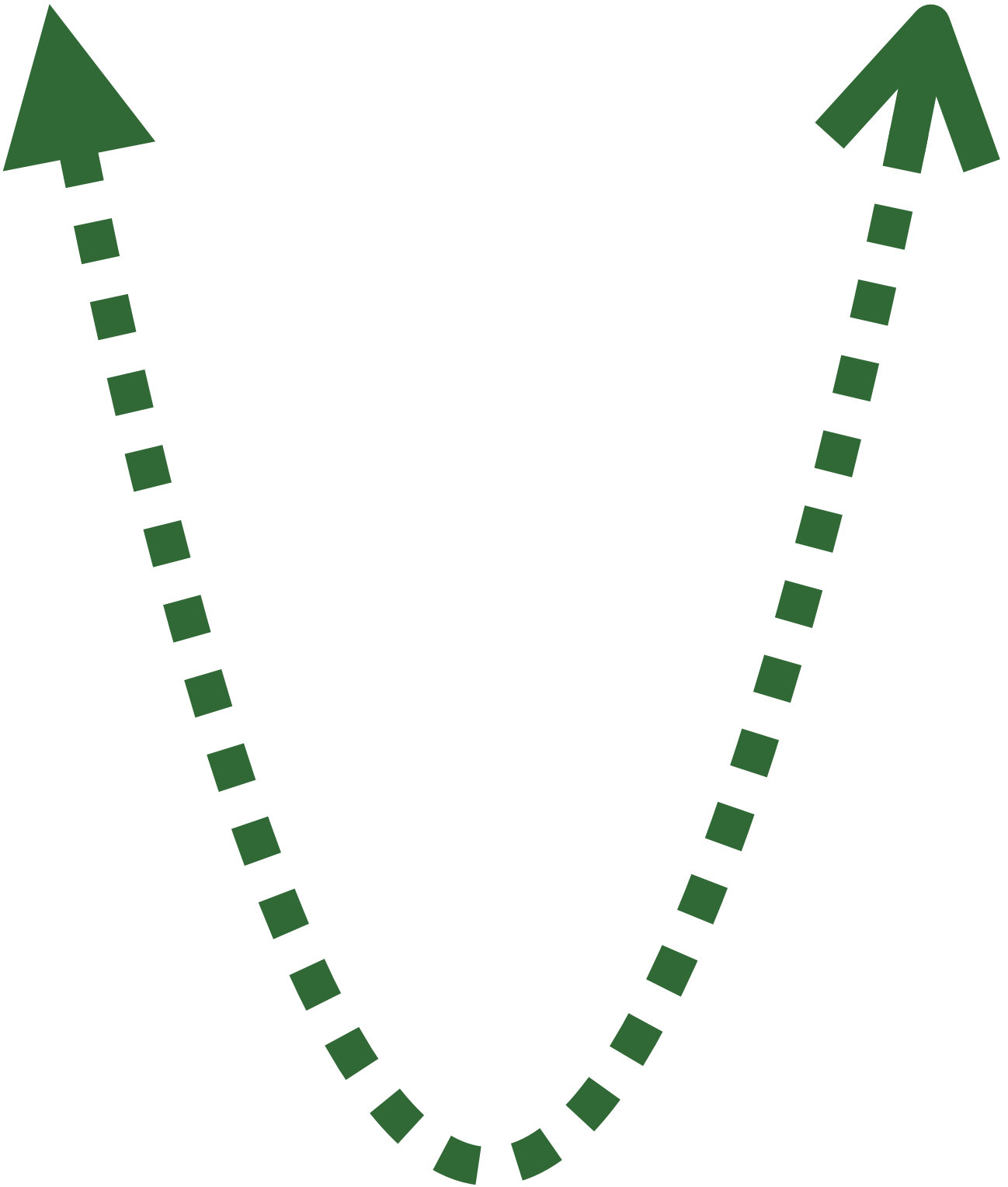


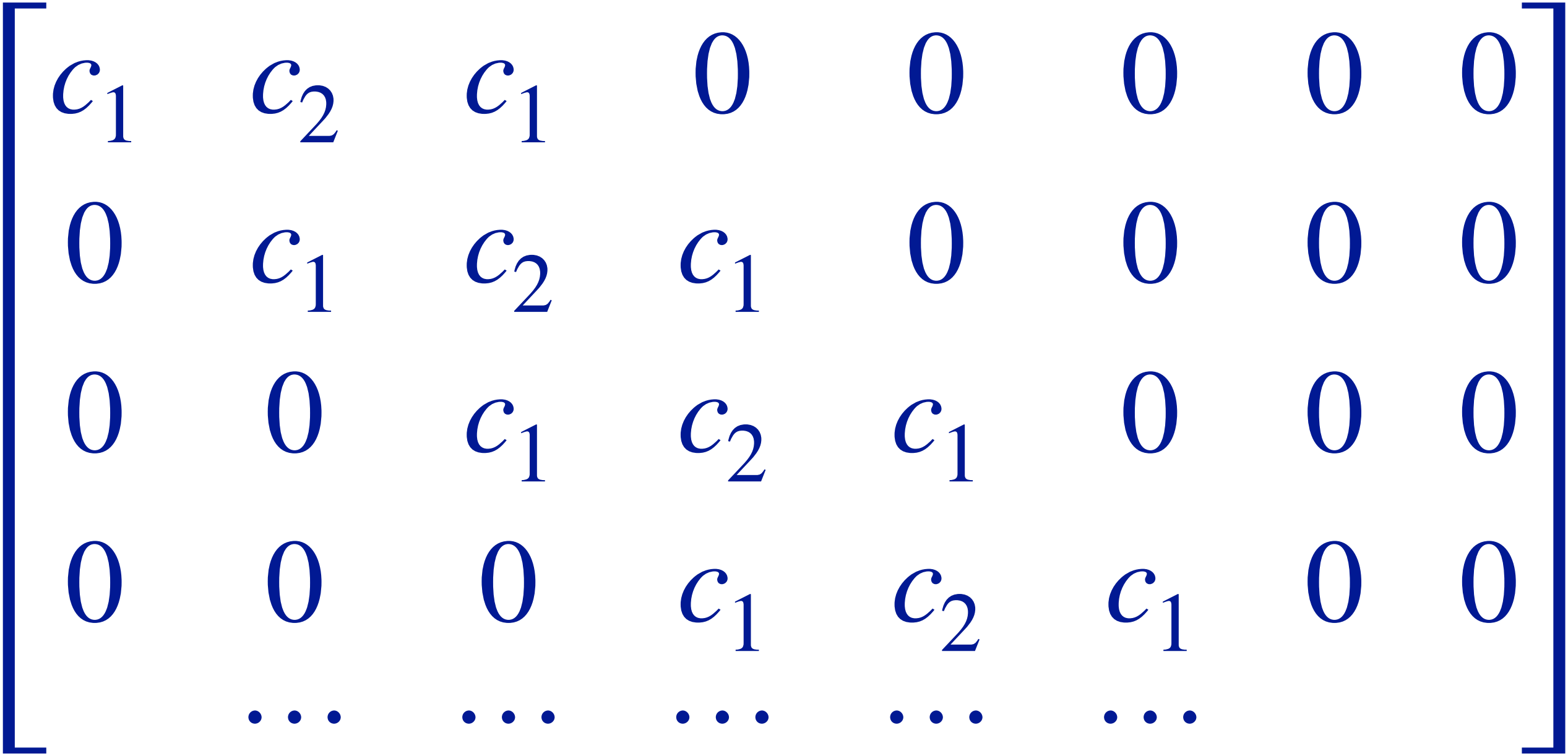






$$a_{ij} = \begin{cases} c_{|i-j|} & |j-i| < \frac{s}{2} \\ 0 & o.w \end{cases}$$

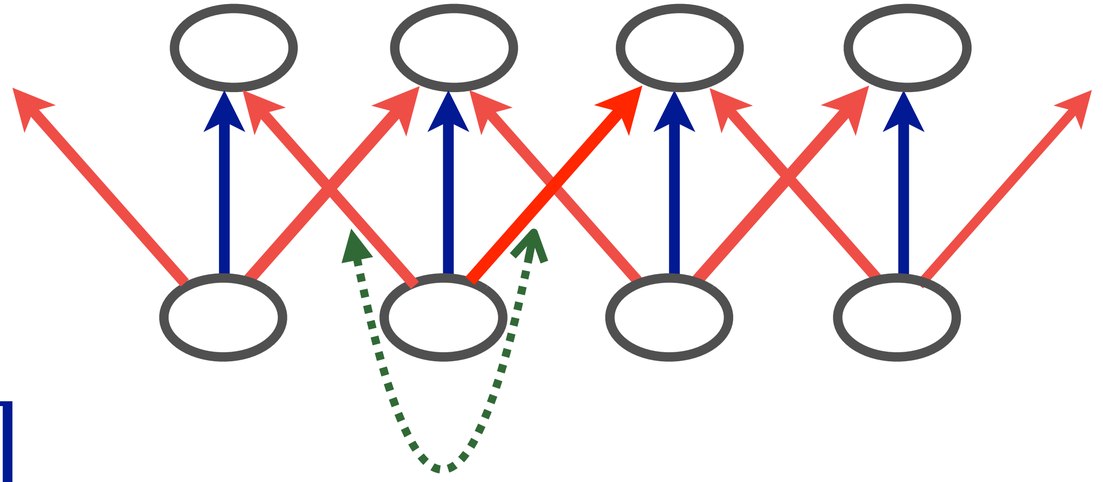




$$h_i^{r+1} = \sigma\left(\sum_{j=0}^{s} c_j \frac{h_{i-j}^r + h_{i+j}^r}{2}\right)$$

Parameter Symmetrization

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



$$\begin{bmatrix} c_1 & c_2 & c_1 & 0 & 0 & 0 & 0 & 0 \\ 0 & c_1 & c_2 & c_1 & 0 & 0 & 0 & 0 \\ 0 & 0 & c_1 & c_2 & c_1 & 0 & 0 & 0 \\ 0 & 0 & 0 & c_1 & c_2 & c_1 & 0 & 0 \\ & \dots & \dots & \dots & \dots & \dots & & \end{bmatrix}$$

$$h_i^{r+1} = \sigma\left(\sum_{j=0}^{s} c_j \frac{h_{i-j}^r + h_{i+j}^r}{2}\right)$$

Averaging Neuron