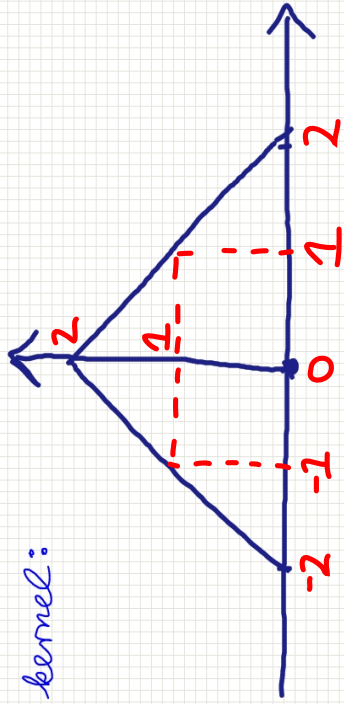
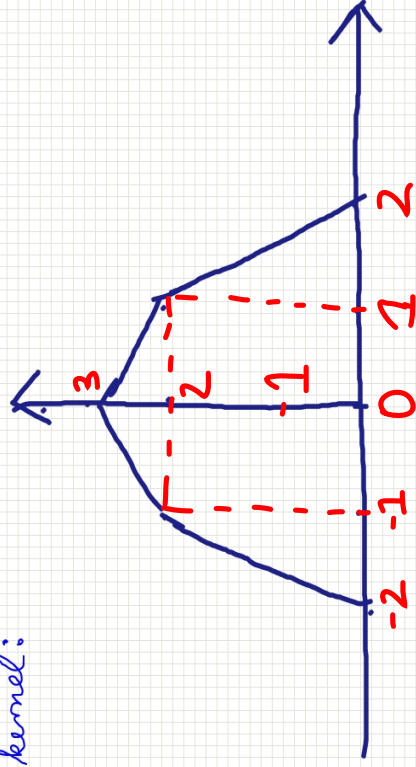


first kernel:



$$S_1 = \begin{pmatrix} 1 & 0 & & & \\ 1/4 & 1/2 & 1/4 & & \\ & 1/4 & 1/2 & 1/4 & \\ & & 1/4 & 1/2 & 1/4 \\ & & & 0 & 1 \end{pmatrix}$$

second kernel:



$$= S_1 \begin{pmatrix} 1 & 0 & & & \\ 4/17 & 9/17 & 8/17 & & \\ & 2/7 & 3/7 & 2/7 & \\ & & 8/17 & 9/17 & 4/17 \\ & & & 0 & 1 \end{pmatrix}$$

eigenvalues: 1, 1, 1, 9/17, -5/119 negative