Solved examples on topics presented in Lecture 6

DFT frequency resolution: `Schaum` (6.35/254)

DFT visualization: See the corresponding `Matlab script`

Circular convolution: `Schaum` (6.4.3/231)

- Several examples to compute both linear and circular convolution are contained in the video `Youtube` (Periodic or Circular Convolution)
  https://www.youtube.com/watch?v=A6b3UkraTgw
- A slight mistake at the beginning of the video (it does not influence the correctness of the presented approach): the lecturer states at the beginning of the video that input signals of circular convolution must be real-valued, which is not correct. Circular convolution is well defined even for complex sequences.
- `Matlab` verify your calculations in Matlab using command `y=ifft(fft(x).*fft(h));` Circular periodic convolution in time-domain corresponds to sample-wise multiplication of DFTs of the input sequences

Fast Fourier Transform: See the corresponding `Matlab script`

Block-wise processing: See the corresponding `Matlab script`