MATH 464, HW 10

1) Implement in your preferred Computer Algebra System (MATLAB, MATHEMATICA, MAPLE, DERIVE, OCTAVE, etc etc) the FFT algorithm for DFT for $N=2^{5}$. Apply it to a vector:

$$
f(k)=\sin (2 \pi k / 32), \quad k=0, \ldots 31
$$

2) Compare the results of part 1 with the result of the DFT applied to the same vector.
