

CS663

Assignment 5 - Q4

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Please look at matlab_report.pdf in same folder.

As visible in the MATLAB report, the outputs match expectations.

- **Ideal, $D = 40$** - Ringing effects are clearly visible due to low cutoff frequency. Image is not very clear as several crucial elements have been removed from the Fourier Transform.
- **Ideal, $D = 80$** - Some amount of ringing is seen, but it's lesser than $D = 40$. This is because side-lobes get significantly smaller as D increases. Image is a lot clearer too.
- **Gaussian, $S = 40$** - Ringing absent, image seems to have undergone right amount of blur.
- **Gaussian, $S = 80$** - Ringing absent, image is sharper than $S = 40$ since more high frequency components are preserved.