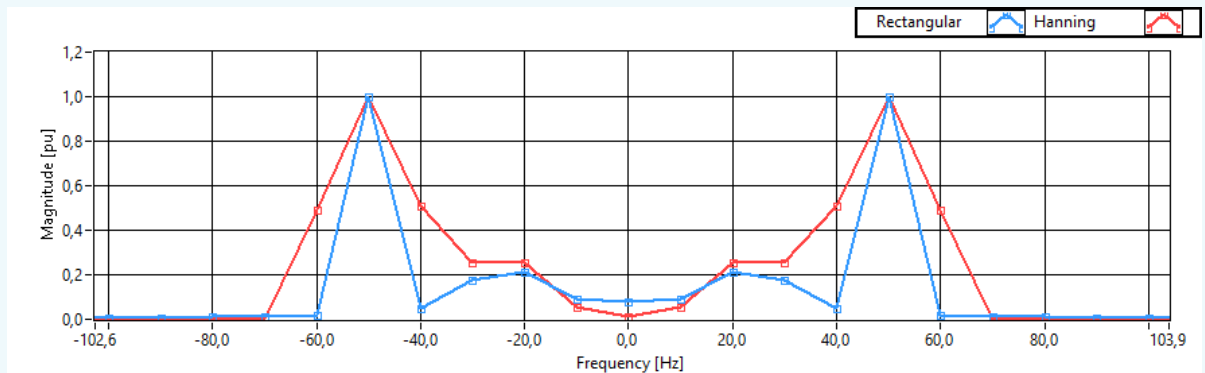


Question 1



Select the correct statement.

- ☐ a. The signal is not coherently sampled, no spectral leakage is present.
- ☐ b. The Hanning window outperforms the rectangular window in distinguishing between the two tones.
- ☒ c. Due to spectral leakage and the proximity to the DC component, the two tones are difficult to detect accurately for both windows.
- ☐ d. The fact that the tones are close to the DC component and are incoherently sampled means that the influence of the negative spectrum from long-range leakage is negligible.

Question 2

What is the motivation for using IpDFT?

Select one:

- ☐ a. It mitigates aliasing.
- ☐ b. It makes the frequency resolution (Δ_f) larger.
- ☒ c. It allows to address the effects of short range leakage.
- ☐ d. It reduces the side lobe level.