Sampling and Reconstruction of Signals

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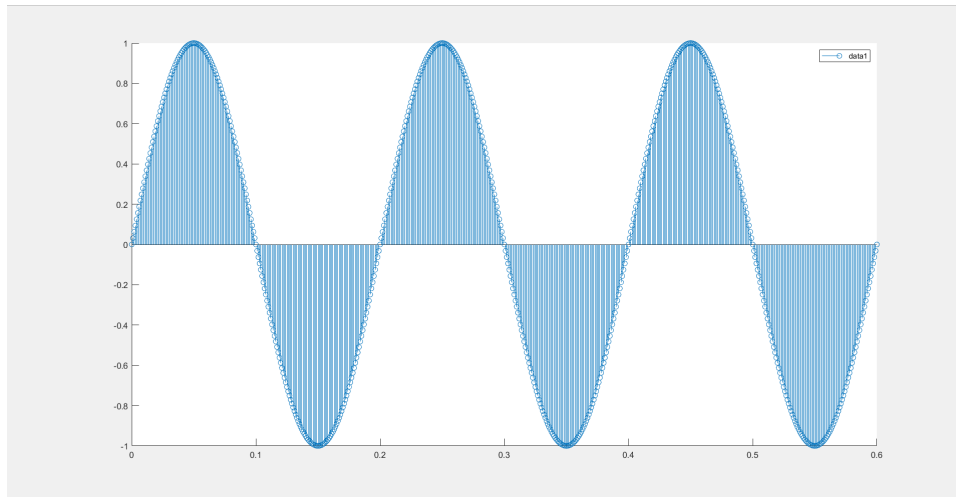
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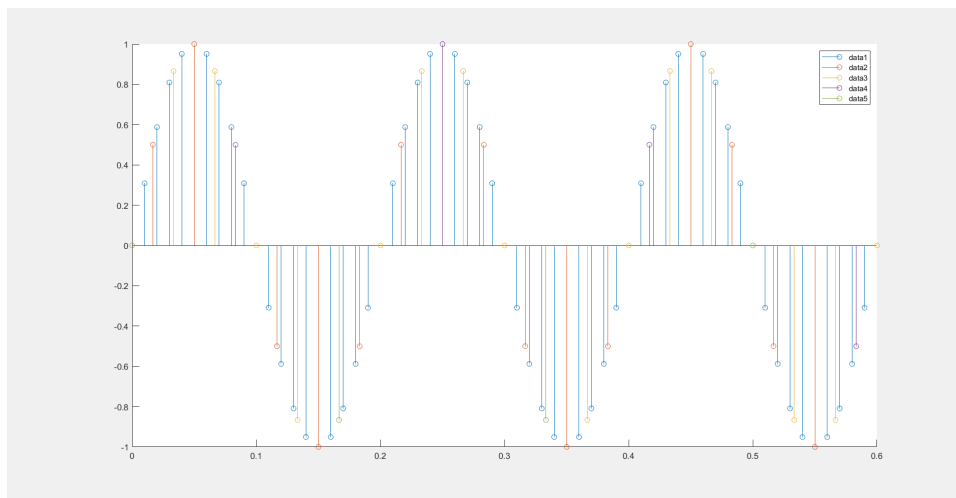Figure 1: Plot from Question 1

Figure 2: Plot from Question 1

1. The resulting plot is shown in Figure 1

2. The resulting plot is shown in Figure 2

3. It is possible to reconstruct all signals that satisfy the nyquist rate requirement (10 Hz), this means that every sampled signal at frequencies of 100, 60, 30, 12 Hz can be reconstructed. Only the 6 Hz signal cannot be reconstructed.