Special Problem II.B-13

A receiver uses high-side tuning, and an Intermediate Frequency filter centered at 100 MHz.

The local oscillator of this receiver is tuned to 1 GHz.

a) Determine the frequency of the input signal to which the receiver is tuned.

b) Determine the frequencies of all other RF input signals (up to and including 3rd order products) that could also pass through this Intermediate Frequency filter.