

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.