

**Special Problem II.A-17**

A **mixer** has power of +13 dBm flowing into port 1, -30 dBm flowing out of port 2, and -25 dBm flowing into port 3.

- a) Which port (1, 2, or 3) is most likely the **RF** port ?
- b) Which port is most likely the **LO** port ?
- c) What is the **conversion loss** of this mixer ?