Special Problem II.A-7

A mixer with a conversion loss of 6 dB has a signal at its RF port of -15 dBm.

- a) What is the power of the signal at the IF port, provided that the LO power equals the mixer drive power?
- b) Say the LO power drops 10 dB below the mixer drive power. What is the power of the IF signal now (where $P_{RF} = -15$ dBm, as before)?