Special Problem 3.B-5

An amplifier has a single input signal with power of -20 dBm.

The amplifier **output** includes a **first-order** signal with power of 0 dBm.

The output **also** includes a **third-order** product whose power is -70 dBm.

Determine:

1. The gain of the amplifier.

2. The 3rd order intercept point of the amplifier.

3. The power of the **third order** product if the **input** signal power is **decreased** 15 dB.