Special Problem 4.D-6

The following microwave network consists of **two amplifiers** and **two attenuators**.

$A_1 = 5\ dB$

$G_2 = 15\ dB$

$P_2^{1dB} = 10\ dBm$

$A_3 = 6\ dB$

$G_4 = 11\ dB$

$P_4^{1dB} = 19\ dBm$
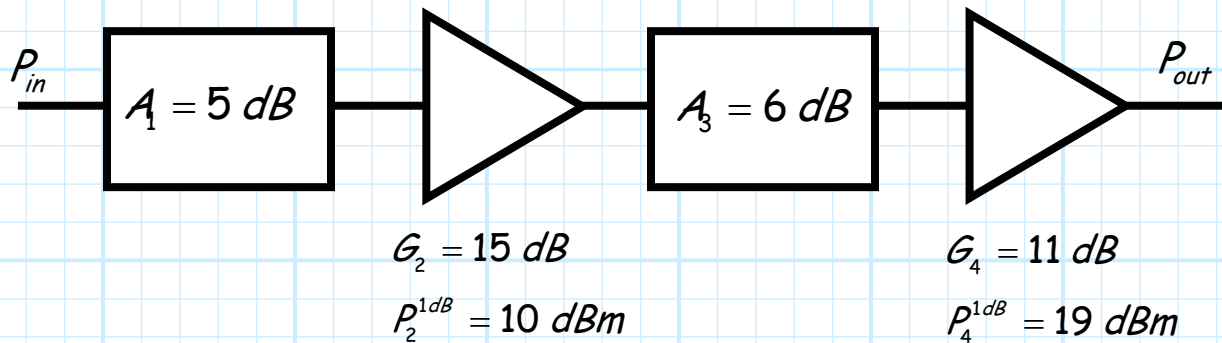
Determine (approximately) the value of **output power** P_{out} when input power P_{in} becomes sufficiently large to cause the network to **saturate**.