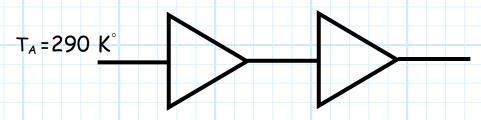
## Special Problem II.B-9

The noise spectral power density at the output of the second amplifier is -140.2 dBm/Hz.

Determine the noise figure of the second amplifier.



$$G_1 = 10 \text{ dB}$$

$$F_1 = 3 dB$$

$$G_2 = 20 \text{ dB}$$
  
 $F_2 = ??$