

## Selected Answers to HW #7

Include explanatory text and intermediate calculations in your solutions. You will not receive credit for merely repeating an answer given here without supporting work.

If an answer is not provided below, it is either because the solution is trivial or because disclosure of the answer would give away too much of the solution.

If you suspect that an answer below is incorrect, please let me know as soon as possible.

1.
  - a.  $NF = 4.3 \text{ dB}$
  - b.  $MDS = -83 \text{ dBm}$
  - c.  $SFDR = 57 \text{ dB}$
2.
  - a.  $NF = 9.0 \text{ dB}$
  - b.  $MDS = -78 \text{ dBm}$
  - c.  $SFDR = 61 \text{ dB}$
3.  $f_2 = 92 \text{ to } 96 \text{ MHz}$
4.
  - a.  $SFDR = 76 \text{ dB}$
  - b.  $BDR = 104 \text{ dB}$
  - c.  $SFDR = 81 \text{ dB}; BDR = 111 \text{ dB}$