

## Selected Answers to HW #5

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.  $P_{out} = 20 \text{ W}$
2. a.  $f_{LO} = 2.19 \text{ to } 3.37 \text{ MHz}$   
b.  $f_{LO} = 4.43 \text{ to } 5.61 \text{ MHz}$   
[other answers not given]
3. WWVB signal is not spectrally flipped; [image signal spectral flipping answer not given]
4. Only the station at 1810 kHz lies within the image range.