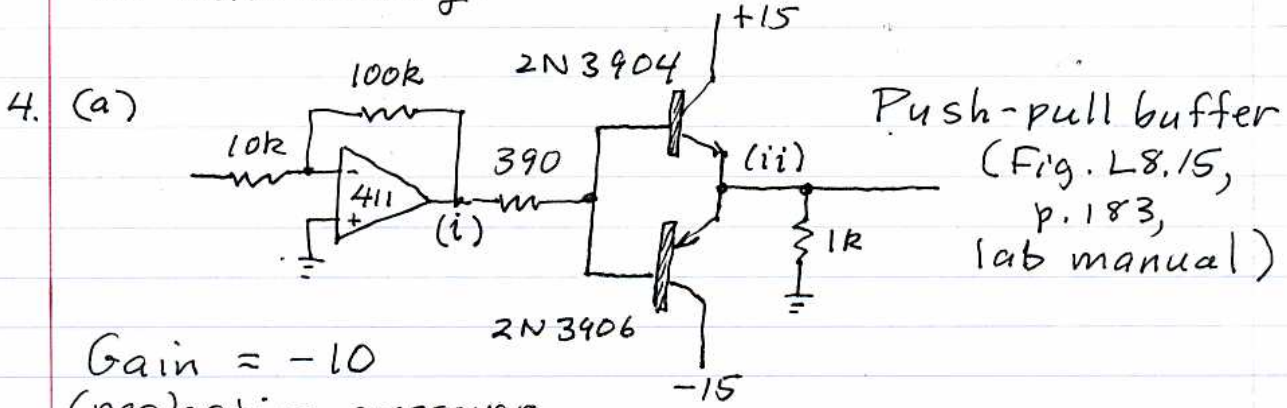
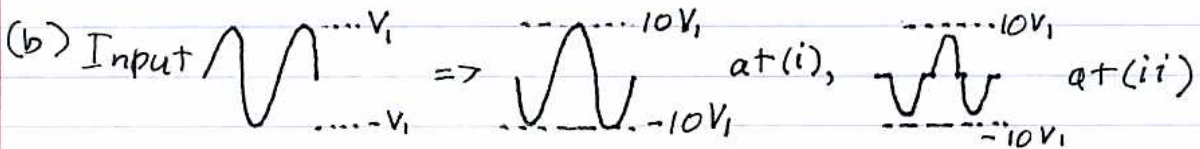


3, continued:

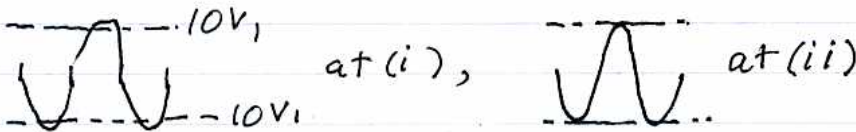
For $f_{3dB} = 20 \text{ kHz}$, must choose $C = \frac{1}{2\pi(20 \text{ kHz})R}$
 so when $R = 6 \text{ k}$ this means $C = 1.33 \text{ nF}$. Any RC
 pair with $RC = \frac{1}{2\pi(20 \text{ kHz})} = 7.96 \mu\text{s}$ and $R \leq 6 \text{ k}$ will
 be satisfactory.



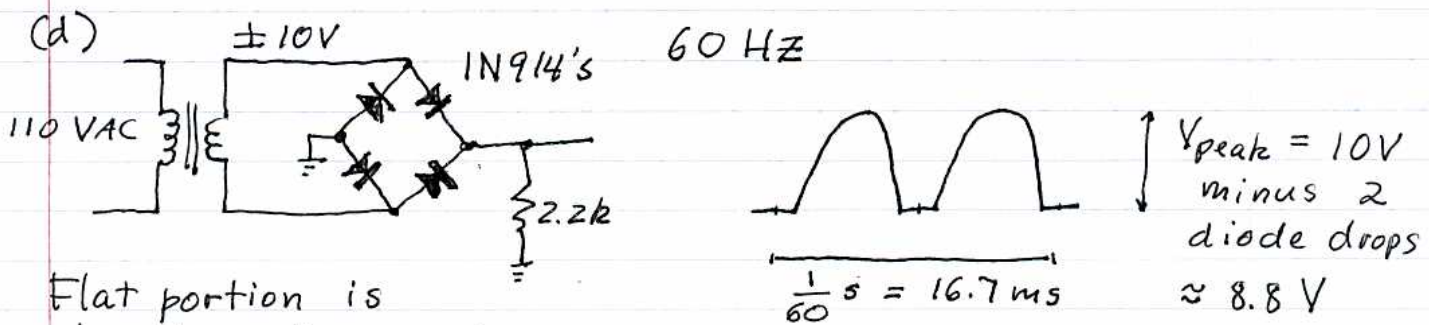
Gain = -10
 (neglecting crossover
 output reduction)



(c) With right side of feedback resistor reconnected to push-pull amplifier output, same input now gives



(In (b), (ii), peaks are at $\pm(10V_i - 0.6V)$;
 in (c), (i), peaks are at $\pm(10V_i + 0.6V)$.)



Flat portion is
 when transformer is

delivering less than $\pm 1.2 \text{ V}$: $|10V \cdot \sin \omega t| \leq 1.2 \text{ V}$

or $|2\pi f t| \leq 0.12$ $|t| \leq 0.32 \text{ ms}$ around $V = 0$

Hence the flat regions are $2 \times 0.32 = 0.64 \text{ ms}$ long.