EES 351: Exercise (Free)

Instructions

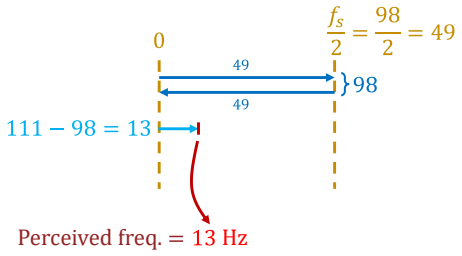
1. Work alone or in a group of no more than three students. **The group cannot be the same as any of your former groups after the midterm.**
2. Only one submission is needed for each group.
3. You have two choices for submission:
   (a) Online submission via Google Classroom
   - PDF only.
   - Only for those who can directly work on the posted files using devices with pen input.
   - Paper size should be the same as the posted file.
   - No scanned work, photos, or screen capture.
   - Your file name should start with the 10-digit student ID of one member. (You may add the IDs of other members, exercise #, or other information as well.)

   (b) Hardcopy submission
4. **Do not panic.**

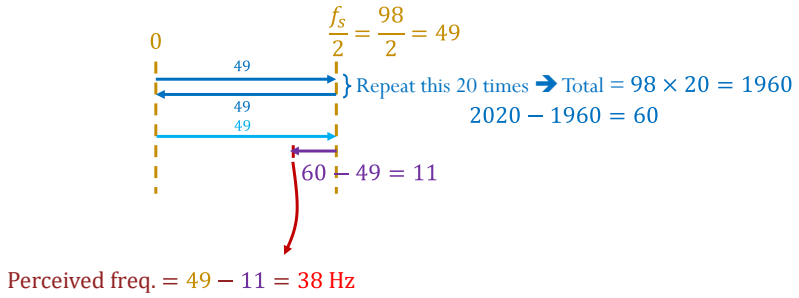
Date: 18 / 11 / 2020			
Name	ID (last 3 digits)		

1. In each part below, for the given value of f_0, find the **"perceived" frequency** of $\cos(2\pi f_0 t)$ when sampling rate f_s is 98 samples/sec.

   a) $f_0 = 111$

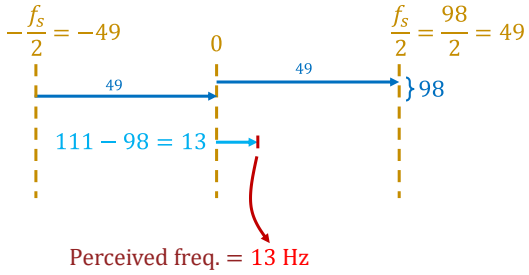


   b) $f_0 = 2020$



2. In each part below, for the given value of f_0, find the **"perceived" frequency** of $e^{j2\pi f_0 t}$ when sampling rate f_s is 98 samples/sec.

   a) $f_0 = 111$



   b) $f_0 = 2020$