

ECS 332: In-Class Exercise # 19 - Sol

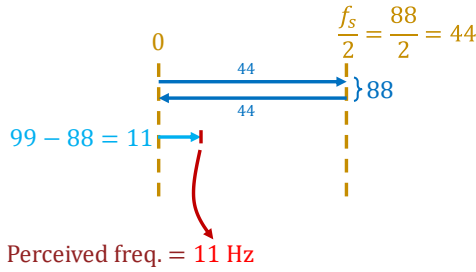
Instructions

1. Separate into groups of no more than three students each. **The group cannot be the same as any of your former groups after the midterm.**
2. Write down all the steps that you have done to obtain your answers. You may not get full credit even when your answer is correct without showing how you get your answer.
3. **Do not panic.**

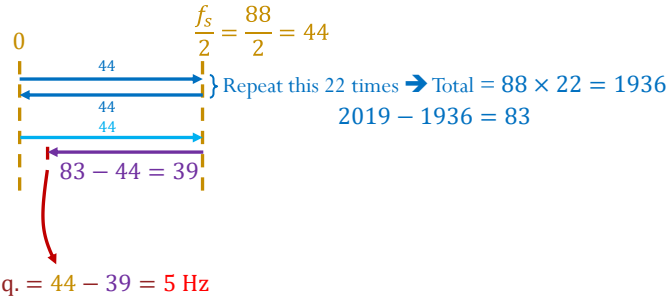
Date: <u>13</u> / <u>11</u> / 2019			
Name			ID (last 3 digits)
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1. Suppose we input $\cos(2\pi(f_0)t)$ into plotspect with sampling rate $f_s = 88$ samples/sec. Find the **“perceived” frequency** (the freq. that plotspect sees) when

a) $f_0 = 99$

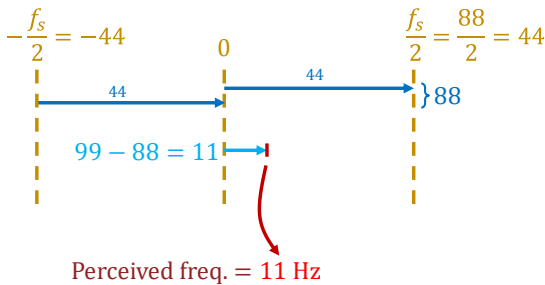


b) $f_0 = 2019$



2. Suppose we input $e^{j(2\pi(f_0)t)}$ into plotspect with sampling rate $f_s = 88$ samples/sec. Find the **“perceived” frequency** (the freq. that plotspect sees) when

a) $f_0 = 99$



b) $f_0 = 2019$

