

EECE 2150 - Circuits and Signals: Biomedical  
Applications Fall 2022  
Quiz 10

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Student Name: \_\_\_\_\_

For each of the time histories (1–7), find the Fourier transform (A–H). Note that there is one Fourier transform that does not match any time history.

**Hint:** Look carefully at the vertical (and horizontal) scales on some of these.

First, which spectrum doesn't match any time history. Why not?

\_\_\_\_\_

\_\_\_\_\_

Time History **1** matches Spectrum \_\_\_\_\_

Time History **2** matches Spectrum \_\_\_\_\_

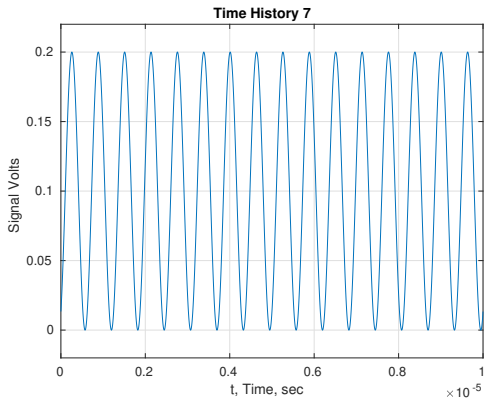
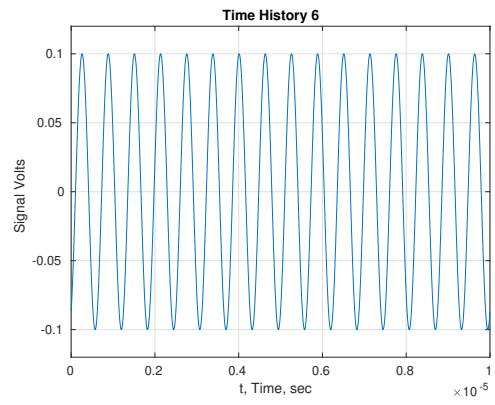
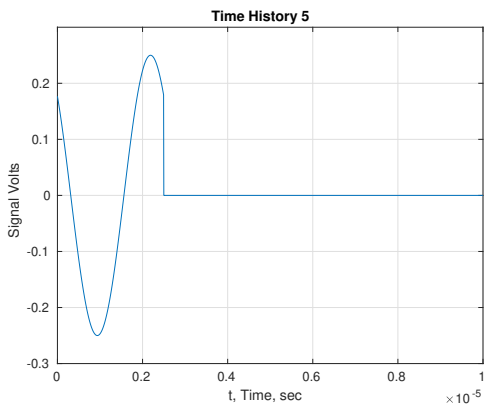
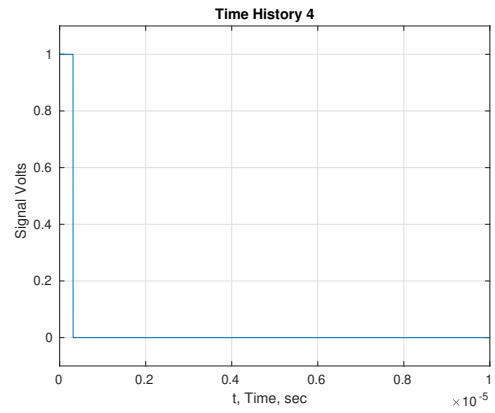
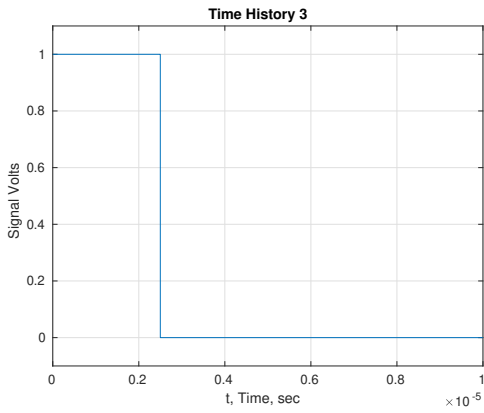
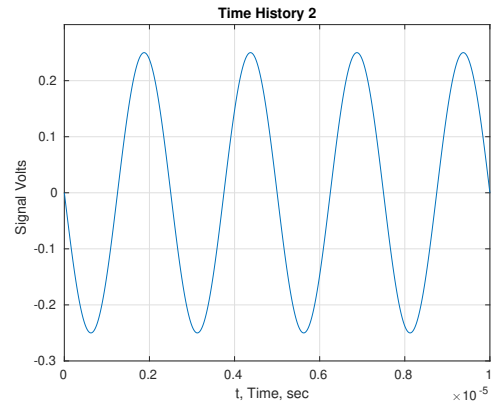
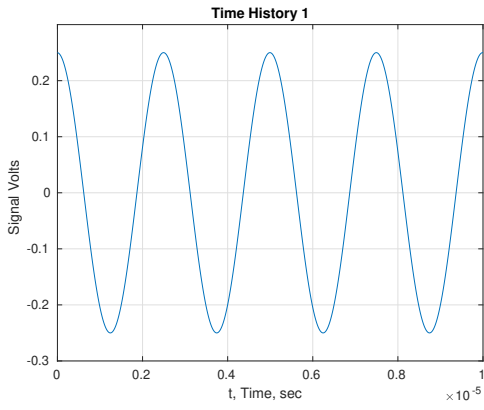
Time History **3** matches Spectrum \_\_\_\_\_

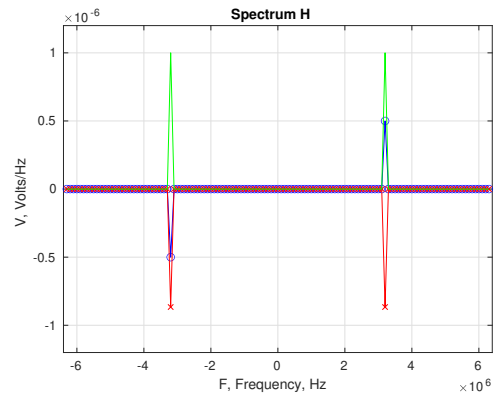
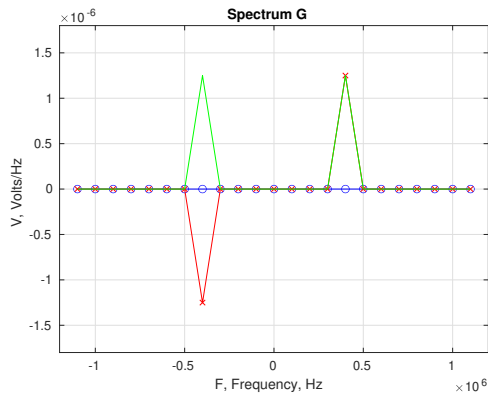
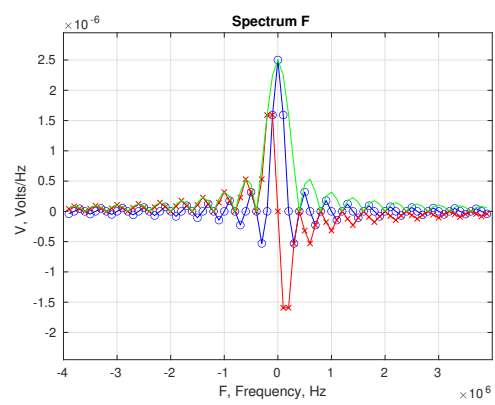
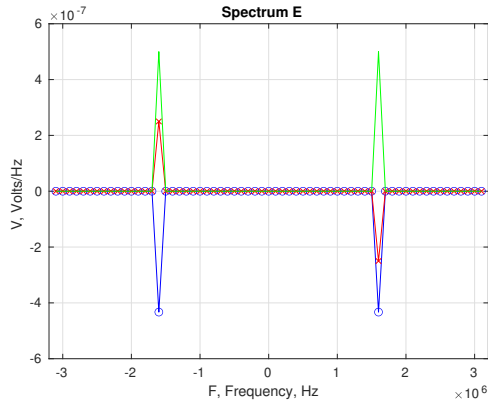
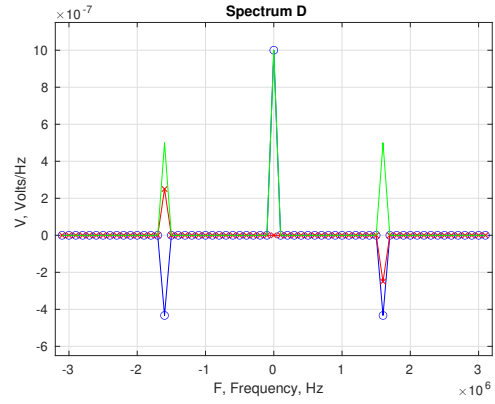
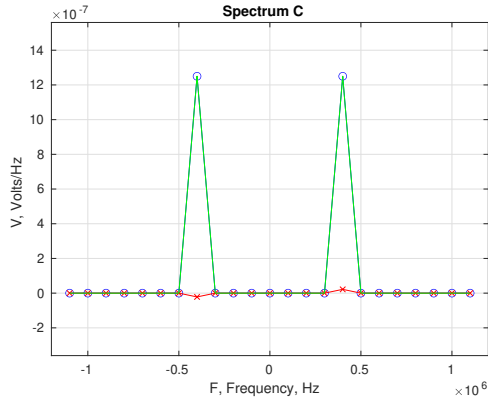
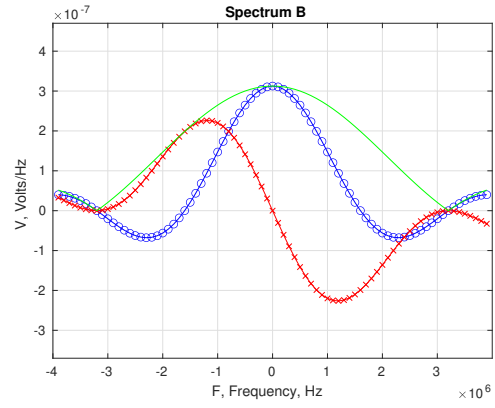
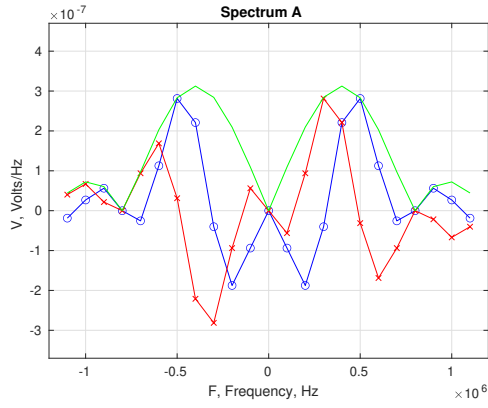
Time History **4** matches Spectrum \_\_\_\_\_

Time History **5** matches Spectrum \_\_\_\_\_

Time History **6** matches Spectrum \_\_\_\_\_

Time History **7** matches Spectrum \_\_\_\_\_





First, which spectrum doesn't match any time history. Why not?

**H** because the negative-frequency components are not complex conjugates of the positive-frequency ones.

Time History **1** matches Spectrum **C**

Time History **2** matches Spectrum **G**

Time History **3** matches Spectrum **F**

Time History **4** matches Spectrum **B**

Time History **5** matches Spectrum **A**

Time History **6** matches Spectrum **E**

Time History **7** matches Spectrum **D**