

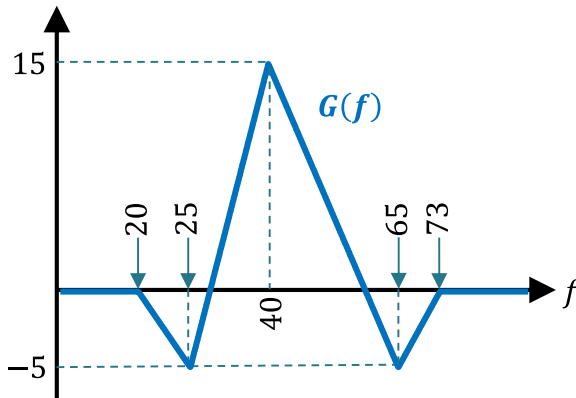
# EES 351: In-Class Exercise # 16

## 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: 4 / 11 / 2020			
Name			ID <small>(last 3 digits)</small>

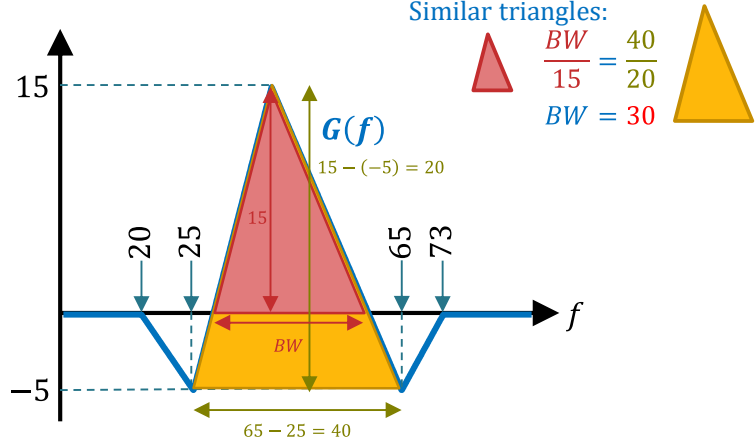
1. Find the bandwidth (BW) values for the signal below.  
Note that the signal is even and real-valued in both domains and therefore we show only the positive-frequency side.



Absolute BW =

$$73 - 20 = 53.$$

Null-to-null BW =



3-dB BW (half-power BW) =

