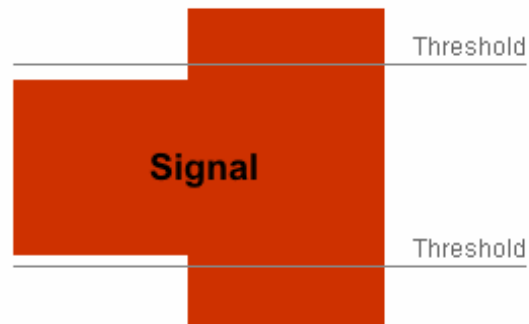


3. In the following diagram, the gray lines represent threshold values, and the red indicates the audio signal values. Assuming a compression ratio of 2:1 and ignoring attack and release times, indicate with a horizontal line what the signal would look like after upward and downward compression is applied.

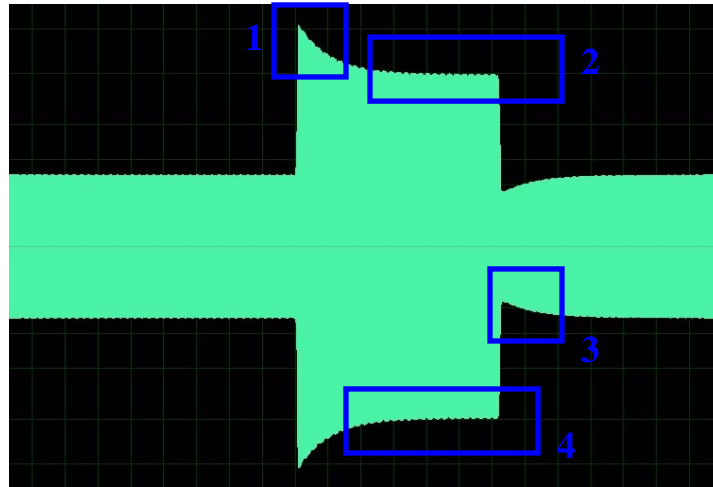


4. Explain how the diagram that you drew above in problem #3 would change if attack and release times were taken into account. Why is it important to determine the optimal attack and release times when applying dynamics processing?

5. In the signal below, look at the areas in the blue rectangles. Indicate which of the following is occurring in each box:

Upward compression
Attack time

Downward compression
Release time



- 1.
- 2.
- 3.
- 4.