WS 39: Overtone Series

A. Notate the indicated overtones series through the sixteenth partial, representing the out-of-tune partials with solid noteheads.

Fundamental: B♭1

1st overtone: A2

1st partial: G2

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B. Respond with the notated pitch.

The 5th partial of B♭ is: __________________________ 

G5 is the 2nd overtone of: __________________________

The 3rd overtone of D3 is: __________________________

E6 is the 4th partial of: __________________________

The 4th overtone of A0 is: __________________________

F4 is the 4th overtone of: __________________________

The 3rd partial of F♯2 is: __________________________

C5 is the 5th partial of: __________________________

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C. Consider the given pitches as fundamental tones. Notate the lowest overtone they have in common.

D. Notate the fewest tones required to set this chord in vibration.