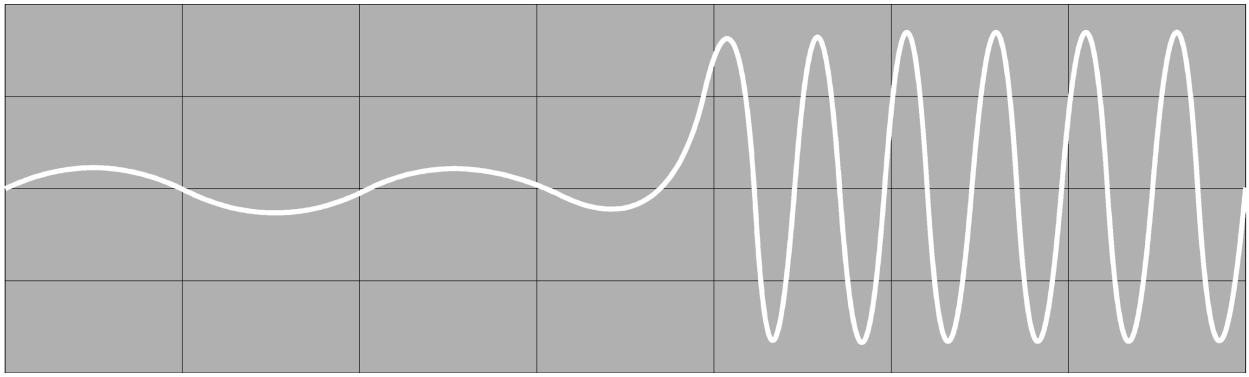
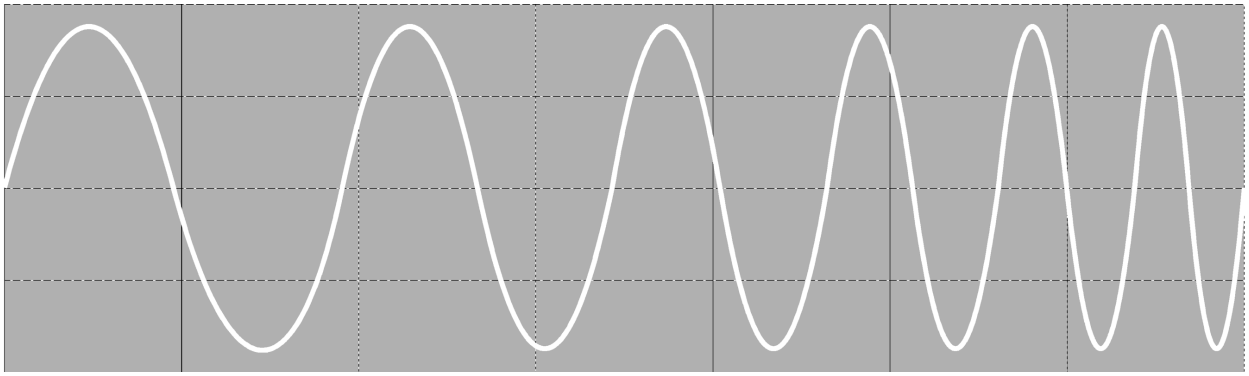
PhyzJob: Wave Forms

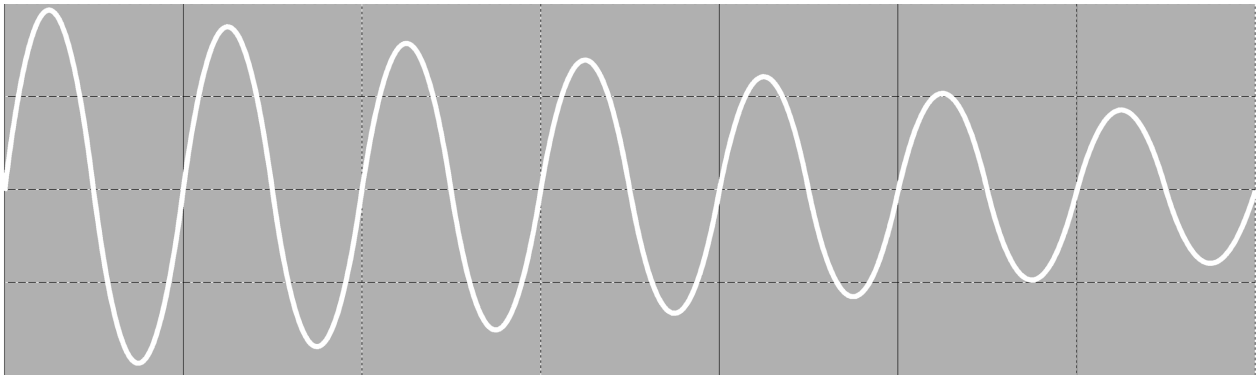
The patterns below correspond to oscilloscope readings taken over a period of time.



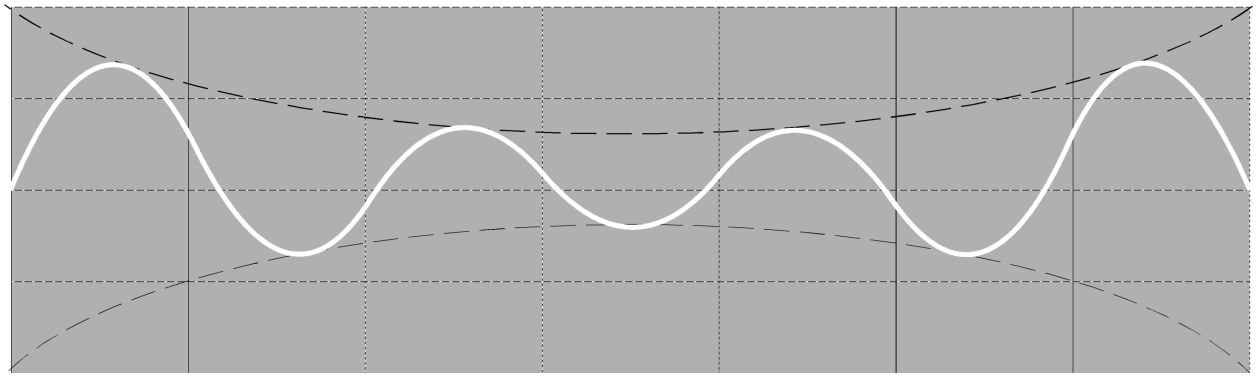
1. What kind of sound would produce the pattern (trace) shown above?



2. What kind of sound would produce the pattern (trace) shown above?



3. What kind of sound would produce the pattern (trace) shown above?



4. What kind of sound would produce the pattern (trace) shown above? (The dashed line represents the amplitude envelope and therefore shows the variation in volume.)

5. Consider the sound sequence made by your instructor (playing the organ pipe). Sketch the trace corresponding to the sound.

6. A car drives by with its horn blowing (such as the one shown in *Physics: Cinema Classics* Waves I: Doppler Effect). Sketch the pattern of the horn's sound as the car approaches, passes, and drives onward. Assume the car takes seven seconds to make its trip and it passes us at $t = 3.5$s.