Due: 11/8 (11:59PM)

Requirements:

- Write a WebGL program that meets the following requirements. Name your source code `hw5.html` and `hw5.js`.

    - The program models a 3D cylinder and displays it using wireframe rendering (see Fig. 1).
    - The model must consist of top face (n-gon), bottom face (n-gon), and side faces (rectangles).
    - Each n-gon (top/bottom faces) must consist of n triangles in the form of triangle fan (see Fig. 1).
    - Each of the side rectangles must consist of 2 triangles (see Fig. 1).
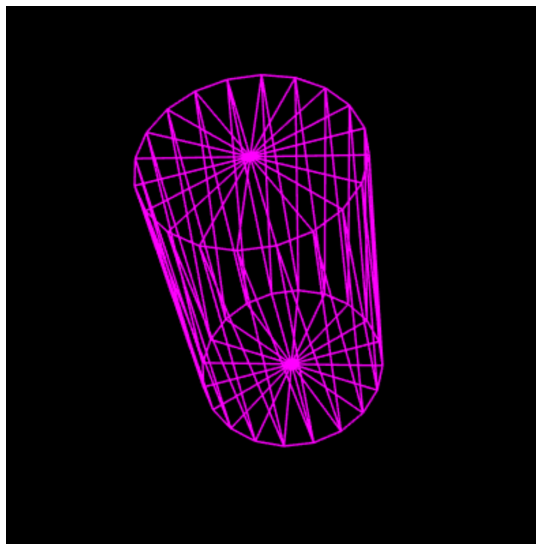   - The cylinder must be rotating constantly to show the model from various angles (see video).

Figure 1: WireCylinder

What to submit:

- Submit all your **source files (.html, .js)** that are needed for compilation, including **library files/folders**. *Missing library files/folders will lead to point deduction.*

- Make sure your **library folder/files** are in the right location relative to your main program (.html), such that when your main program (.html) is clicked as is, it should run without problem.

How to submit:

- Use Canvas Assignment Submission system to submit your source files.

- Make sure to zip all your files/folders into `hw5.zip`, then submit your `hw5.zip` as a single file.

Policy

- Do all the assignments on *Chrome Development Tools* using HTML, JavaScript, and GLSL ES.

- At the top of each source file, provide comments specifying the author, date, and a brief description of the file.

- Source code must contain enough comments here and there to make it easy enough to follow. Insufficient comments could lead to point deduction.

- Incomplete program will get almost no credit (e.g., program does not run due to compile errors or program terminates prematurely due to run-time errors).

- *Thou shall not covet thy neighbor's code*. If identical (or nearly identical) submissions are found among students, every student involved will get automatic zero for the assignment. The same goes for copying existing code from online source.

- If a student makes multiple submissions, only the last submission will be considered valid.