

**Homework Set 10: Heat transfer and vibration Homework**

- 1) Solve problem 13.27 of the textbook.
- 2) The route for an exhaust tube for a refrigeration compressor is shown in the figure. It is made of 0.25 in. ID, 0.060 in. wall thickness copper tubing. The lower end is welded into a comparatively rigid housing and the upper end is free. Determine the five lowest eigen values and corresponding mode shapes.

