ME170 Lecture Class Assignment #2

Name: ……………………………..

Lab Section (AB#): ……………

1. What Material (incl. form) and Manufacturing Process is the LEFT PANEL of the Toaster made from:
   a. Plastic – Injection Molding
   b. Sheet Metal (Steel) – Stamping
   c. Steel Tube – Tube Bending and Machining
   d. Steel Bar Stock – Machining
   e. Aluminum - Casting
   f. Steel - Casting

2. How much would the LEFT PANEL cost to manufacture (Piece Part cost - i.e. Fully burdened cost) in the US if made from:
   1. Steel $:
   2. Stainless Steel $:
   3. Aluminum $:

3. Do you think it would be strong enough out of Aluminum if we don’t make it thicker? Yes or No

4. Why might it be a bad idea to Injection Mold this Left Panel part out of Plastic?

5. What Material and Manufacturing Process is the RIGHT COVER of the Toaster made from:

6. How much would the Right Cover cost to manufacture in a single-cavity mold:
   - in the US - Part Cost$: Investment Cost (Tooling/Mold cost)$:
   - in China - Part Cost$: Investment Cost (Tooling/Mold cost)$: