CHECKSHEET FOR INITIALS ASSIGNMENT

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ME 301-02

Part A. Pre-CAD Plan

✓ Identification/description of basic shapes
✓ Consideration of dimensions (attempting to minimize these)
✓ Consideration of supporting relations
✓ Selection/positioning of origin
✓ Initial thoughts about reference geometry
✓ Itemization/explanation of assumptions

Part B. Process Documentation

✓ Rationale for usage of sketch tools
✓ Clear visualization of relations
✓ Thoughtful use of reference geometry
✓ Details on implementation of SW features
✓ Annotated design tree
✓ Compelling lessons learned

Part C. Products (based on finished model and drawing)

✓ Fully-defined sketches
✓ Creativity/complexity of solid model
✓ Enhancements to appearance of solid model
✓ Use of ME drawing template
✓ Multiple, non-redundant views in 3rd Angle orientation
✓ Thoughtful dimensioning scheme
I fixed a labeling error on my original copy (said 3 instead of 2) but I am unsure of how to be more clear about what plane I am sketching on. They are numbered, and I allow the number in selected to reflect.

Be more clear in what plane you are sketching on.

**Assumptions**
- SolidWorks has a draft feature.
- Shell will allow me to edit thickness of shell separately.

I have shown the dimensions I will use, but have not specified them numerically. All rectangles will be the same proportion as my initials (W = 2.6x3 length x sq).
Because most of the lines are straight & orthogonal to one another, mostly horizontal, vertical, perpendicular, parallel, constraints will be used. I will use a lot of dimensions, however, they will be global variables. I will only have to update my length 'h' and the rest of the geometry will adjust proportionally. I will use fixed angle dimensions for the connection of the legs of the 'X'. A diagonal constraint line (not shown) will be used with a midpoint constraint to force the stretch on the center of the hole to be built on.