



Hull with Mid Plane



A. Save as "HULL MID PLANE".

- Step 1. If necessary, open your **HULL** file from Chapter 1.
- Step 2. Click File Menu > Save As.
- Step 3. Key-in **HULL MID PLANE** for the filename and press ENTER.

B. Create Plane.

- Step 1. Click **Isometric**  on the Standard Views toolbar. (**Ctrl-7**)
- Step 2. Click **Front Plane**  in the Feature Manager, **Fig. 1**.

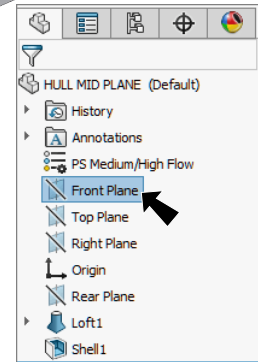


Fig. 1

- Step 3. **Ctrl drag** edge of Front plane in drawing area towards right side of sketch and release, **Fig. 2**. To Ctrl drag, hold down Ctrl **Drag in this direction set distance to 6** and drag plane to right.

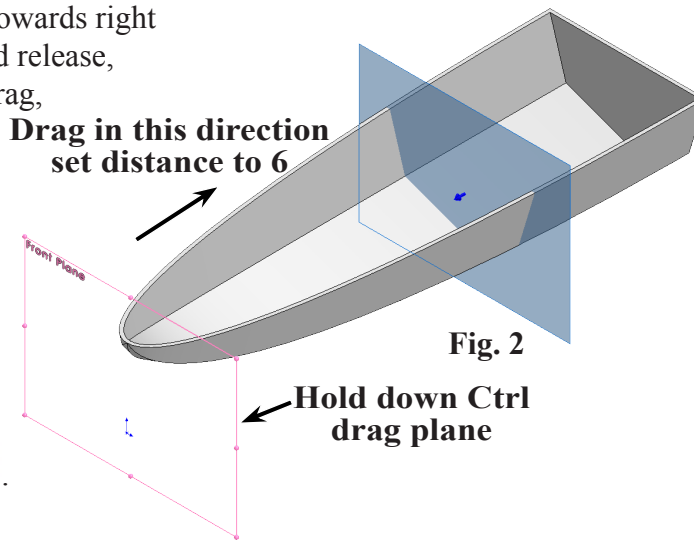


Fig. 2

- Step 4. In the Plane Property Manager set:

Distance  **6**
click OK .

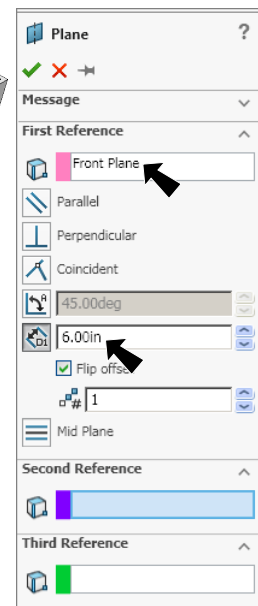



Fig. 3

C. Rename to Mid Plane and Reorder.

- Step 1. **Rename Plane1**  to **Mid Plane** in the Feature Manager, **Fig. 4**. To rename, click Plane1 name in Feature Manager and press **F2** on keyboard. Key-in **Mid Plane**.

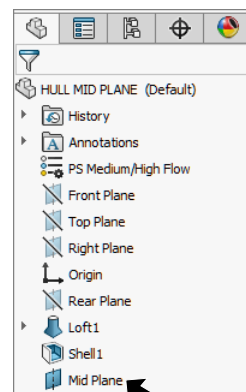



Fig. 4

- Step 2. In the Feature Manager, **move Mid Plane above the Loft**. To reorder the Plane, drag the Plane and position over top of Rear Plane (above Loft). When the cursor changes to Arrow  release the Plane, **Fig. 5**.

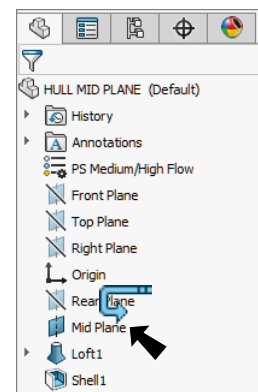



Fig. 5

- Step 3. Save. Use **Ctrl-S**.

D. Add Loft Section.

Step 1. **Right click outside side face of hull** and click **Add Loft Section** from menu, **Fig. 6**.

Step 2. In the Add Loft Section Property Manager set:
under Lost Sections, **Fig. 7**
check **Use selected plane**
click **Mid Plane** in graphics area,
Fig. 8
click OK .

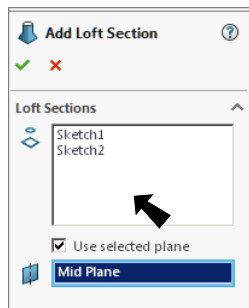
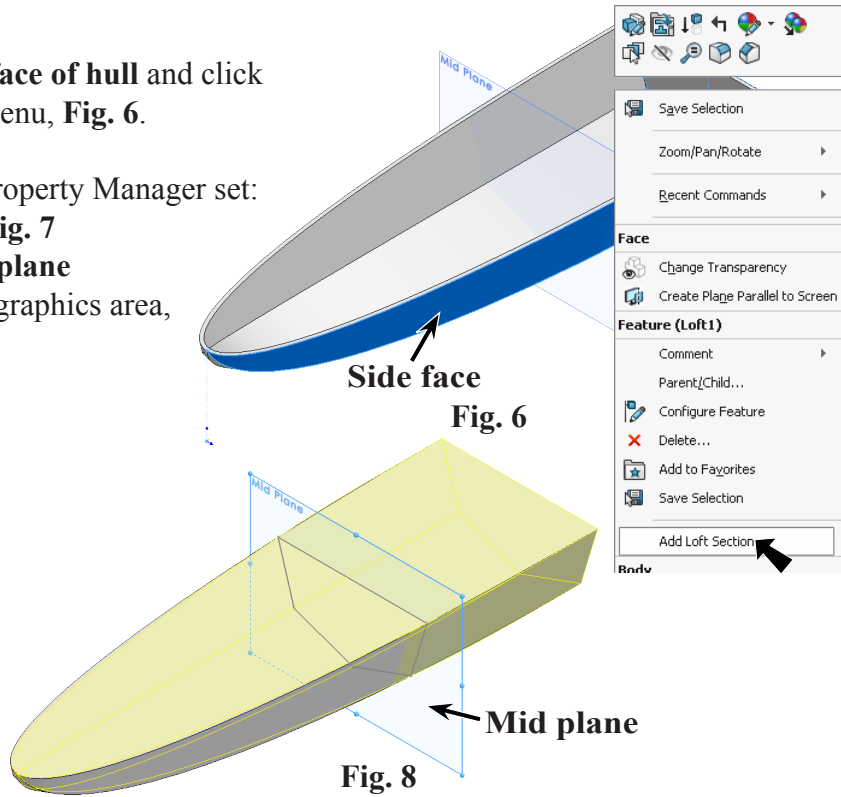





Fig. 7



Step 3. Save. Use **Ctrl-S**.

E. Scale Sketch2 on Rear Plane.

Step 1. **Expand Loft1** (click ) in the Feature Manager, click **Sketch2** and **Edit Sketch**  on the context toolbar **Fig. 9**.
Sketch2 is in Rear Plane at the rear of hull. We will scale down sketch to make sketch smaller and hopefully improve water flow.

Step 2. Click **Normal To**  on the Standard Views toolbar. (**Ctrl-8**)

Step 3. **Delete all dimensions**, **Fig. 10**. To delete, Ctrl click all dimensions and press Delete key.

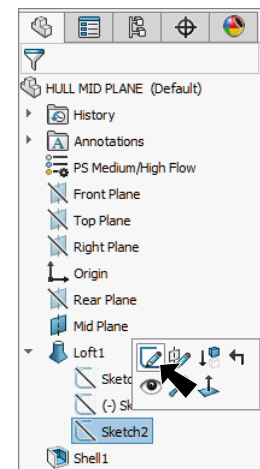


Fig. 9

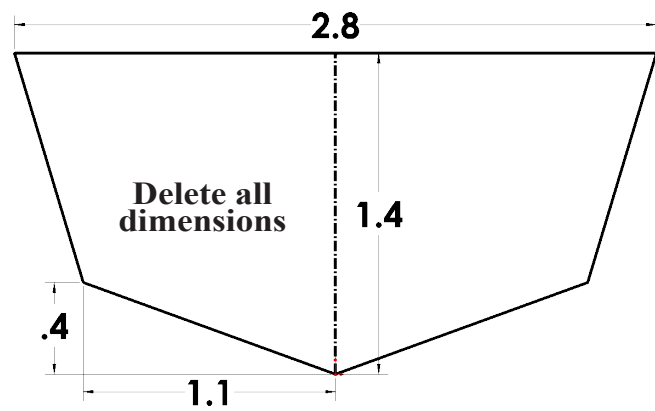
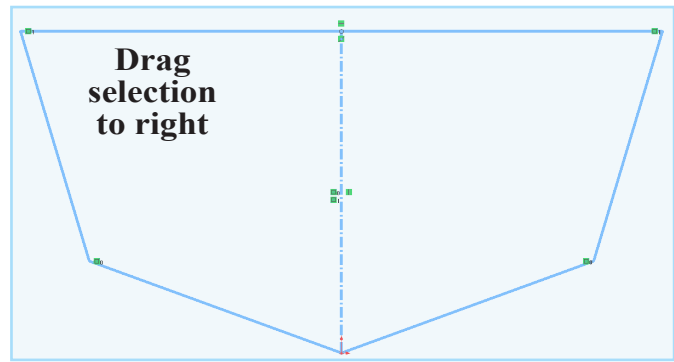


Fig. 10

Step 4. **Drag selection** around the sketch to select all entities, **Fig. 11**.



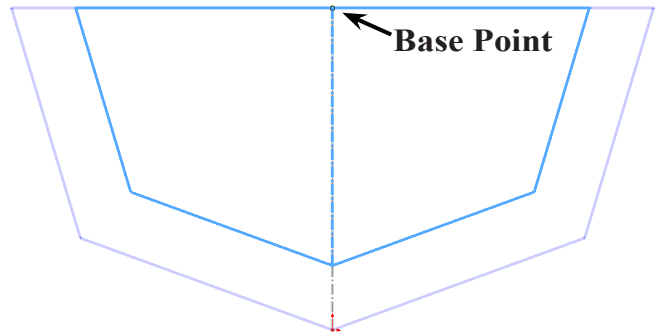
Step 5. Click **Scale Entities**  on the Sketch toolbar.


Step 6. In the Scale Property Manager set: under Parameter, **Fig. 12**
Scale about:

click in **Base Point** selection box, **Fig. 12**
click **top endpoint of centerline**, **Fig. 13**

Scale Factor  **.8**

click OK .



Step 7. Click **Smart Dimension**  (S) on the Sketch toolbar.

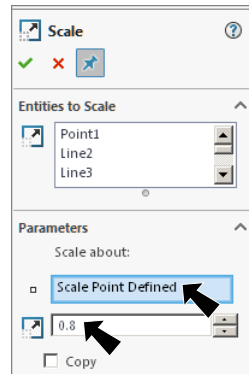
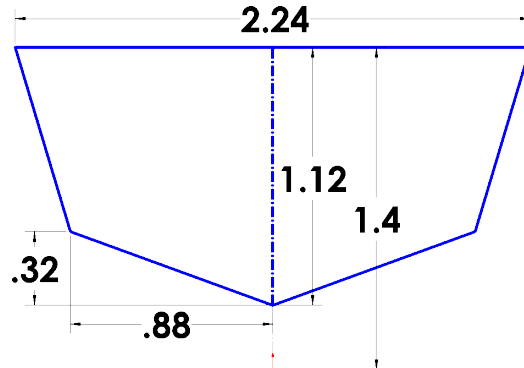


Fig. 13

Step 8. Add dimensions, **Fig. 14**.



Step 9. **Right click graphics area** and click **Select** from menu to unselect Smart Dimension.



Step 10. **Ctrl click bottom endpoint of centerline** and **Origin**  to select both. Release Ctrl key and click **Make Vertical**  on the context toolbar, **Fig. 15**.

Fig. 14

Step 11. Click **Exit Sketch**  on the Sketch toolbar.

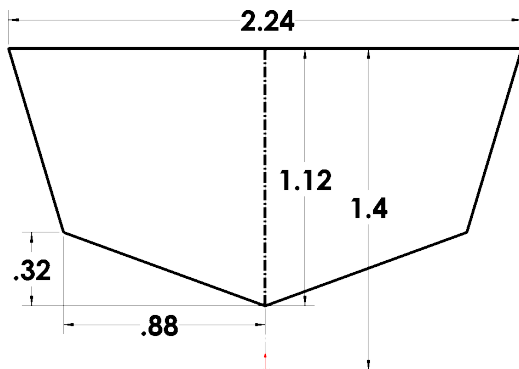


Fig. 16

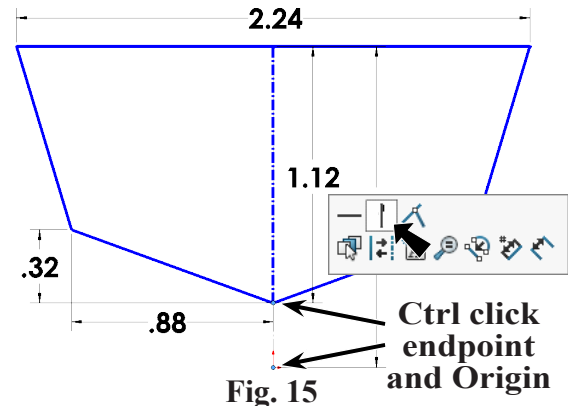




Fig. 15

F. Hide Mid Plane.

Step 1. Click **Mid Plane**  in the Feature Manager and click **Hide**  on context toolbar, **Fig. 17**.

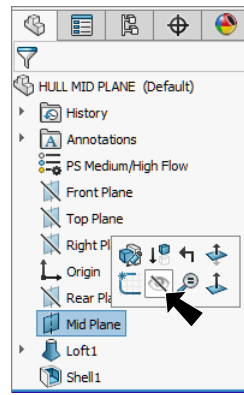


Fig. 17

G. Repair Shell.

Step 1. Click **Isometric**  on the Standard Views toolbar. (**Ctrl-7**)

Step 2. Click **Shell1** in the Feature Manager and click **Edit Feature**  on the content toolbar, **Fig. 18**.

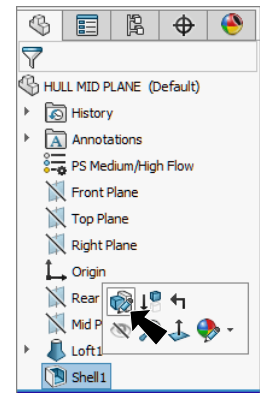


Fig. 18

Step 3. In the Shell Property Manager set:
under Parameters, **Fig. 19**
right click in Faces to remove box and select Clear Selections

click **top face**, **Fig. 20**
click OK .

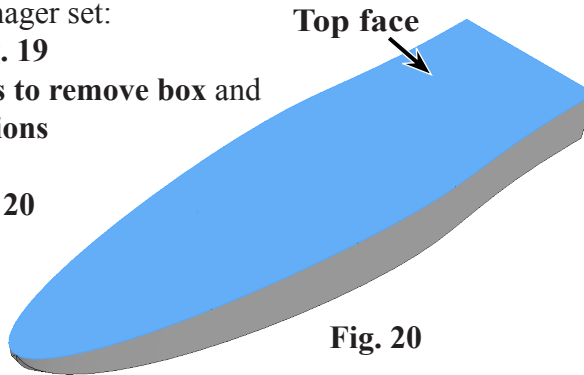


Fig. 20

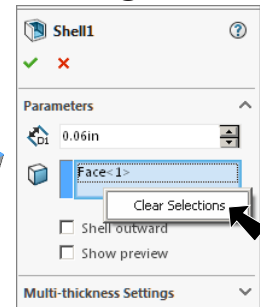


Fig. 19

Step 4. Save. Use **Ctrl-S**.

H. Modify Loft.

Step 1. Click **Loft1** in the Feature Manager and click **Edit Feature**  on the context toolbar, **Fig. 21**.

Step 2. In the Loft Property Manager:
under Start/End Constraints, **Fig. 22**
expand **Start/End Constraints**
Start Tangent
Length: 1

End Tangent
Length: .1
click OK .

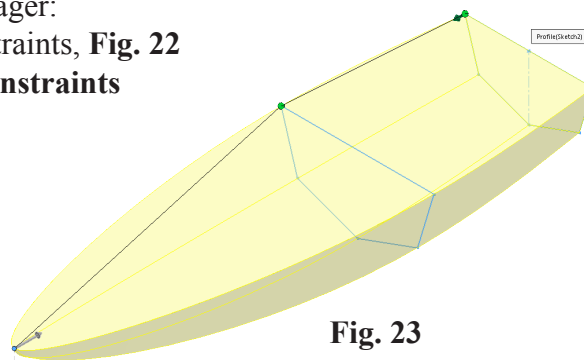


Fig. 23

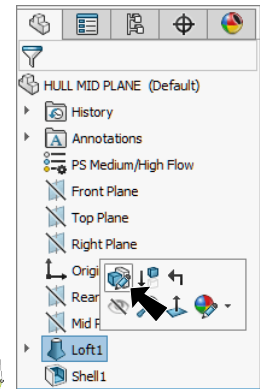


Fig. 21

Step 3. Save. Use **Ctrl-S**.

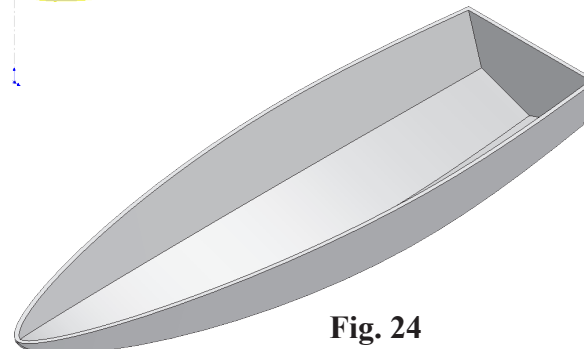


Fig. 24

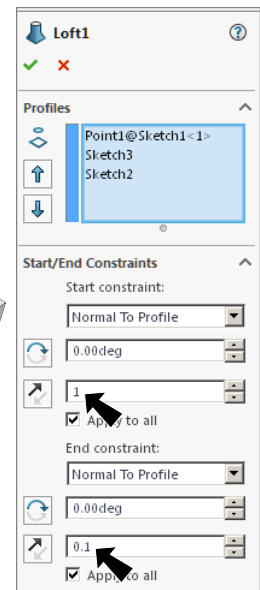


Fig. 22