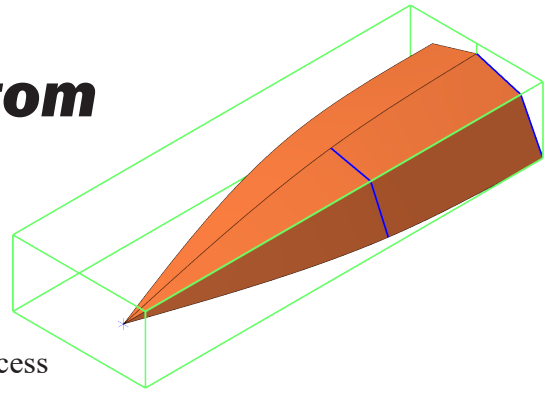


Boat V Bottom



A. Open Boat Block File.

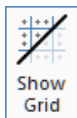
Step 1. Open your **BOAT BLOCK** file.

B. Save As "BOAT V BOTTOM"

Step 1. Click **Save As**  (Ctrl-Shift-S) on the Quick Access Toolbar QAT.

Step 2. Key-in **BOAT V BOTTOM** for the filename and press ENTER.

C. Set Grid and Snap .1.

Step 1. On the View tab  click **Show Grid**  and **Snap to**



Step 2. Click the **Dialog Box Launcher**  (Alt-G), Fig. 1.

Step 3. In the Grid Settings dialog box:

under Spacing, Fig. 2
X and Y Spacing .1
Click OK .

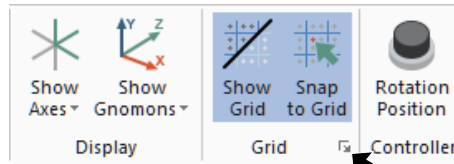


Fig. 1

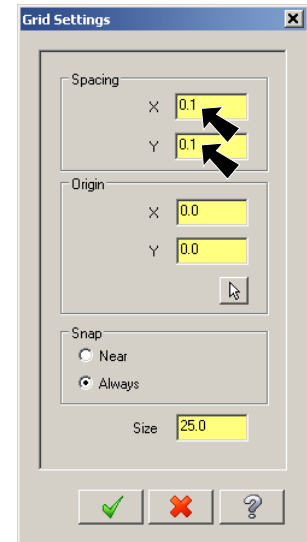
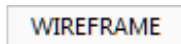


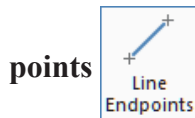
Fig. 2

D. Create Back Rib.

Step 1. Change to the **Front View**. **Right click** in the graphics window and click  **Front** (Alt-2).

Step 2. **Right click** in the graphics window and on the Mini Toolbar set **Z depth -9**, Fig. 3.

Step 3. On the Wireframe tab  click **Line End-**



points
Step 4. Sketch the two lines, Fig. 4. When done click **OK** and **Create New Operation**  in the Line Endpoints function panel.



Fig. 3

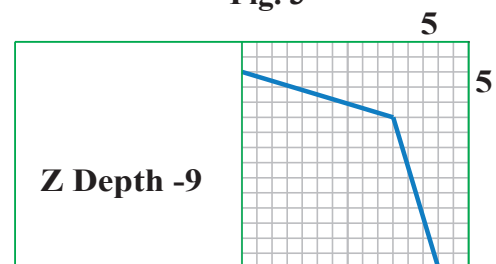


Fig. 4

E. Create Mid Rib.

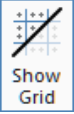
Step 1. **Right click** in the graphics window and on the Mini Toolbar set **Z depth -5.7**, Fig. 5.



Fig. 5

Step 2. Sketch the **two lines**, Fig. 6. Click OK  when done.

F. Turn Off Grid and Snap.

Step 1. On the View tab  click **Show Grid**  and

Snap to Grid  to unselect.

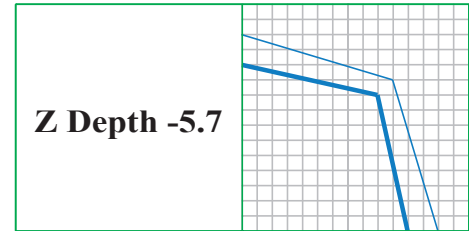
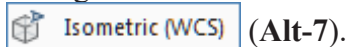
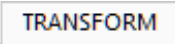
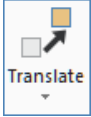


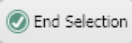
Fig. 6

G. Move Point 1 Inch.

Step 1. Change to the **Isometric View**. **Right click** in the graphics window and click



Step 2. On the Transform tab  click **Translate** .

Step 3. Drag a **selection window** around the **Point** and click **End Selection**  (**ENTER**) Fig. 7.

Step 4. In Translate dialog box set:
Select **Move**  Fig. 8



Click OK .

Step 5. **Right click** the graphics window and click **Clear**

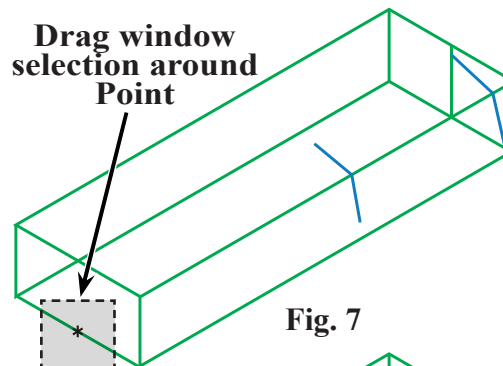


Fig. 7

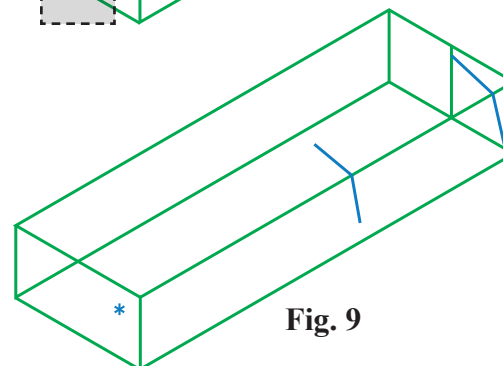


Fig. 9

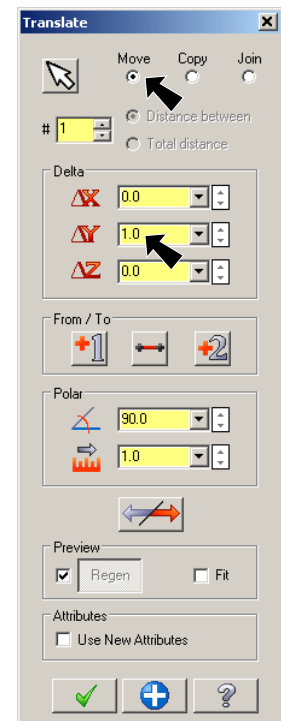
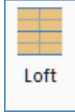
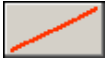


Fig. 8

H. Create Lofted Surfaces.

Step 1. On the Surfaces tab **SURFACES** click Loft .

Step 2. Click **Single**  (S) in Chaining dialog box, **Fig. 10**.

Step 3. Chain rib entities in order, rear Line, middle Line and Point. Select Lines at the same end, **Fig. 11**. If chaining directions arrows on Lines do not point in the same direction - click **Reverse**



Step 4. Click OK  in Chain dialog box, **Fig. 10**.

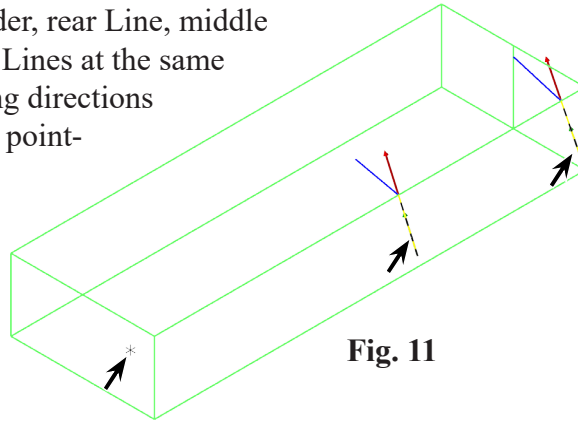


Fig. 11

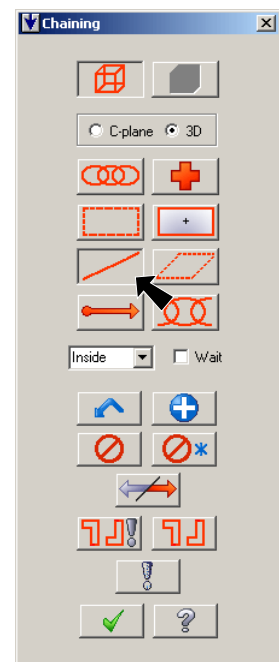


Fig. 10

Step 5. In Loft function panel:
under Entity
select **Lofted**, **Fig. 12**
Click **OK** and **Create New Operation** .

Step 6. If necessary, turn on shading **Alt-S**.

Step 7. Click **Single**  (S) in Chaining dialog box, **Fig. 10**.

Step 8. Chain the other set of rib entities in order, rear Line, middle Line and Point. Select Lines at the same end, **Fig. 13**. If when chaining the Lines, chaining directions arrows are not pointing in the same direction - click **Reverse**



Step 9. Click OK  in Chain dialog box.

Step 10. In Loft function panel click OK  when done.

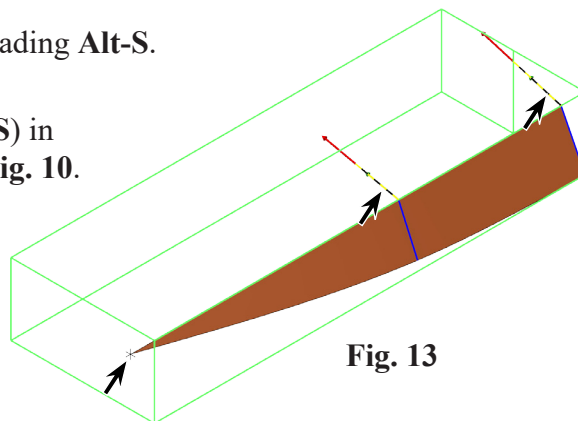


Fig. 13

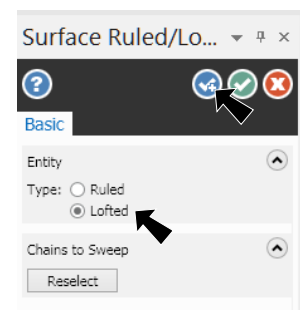


Fig. 12

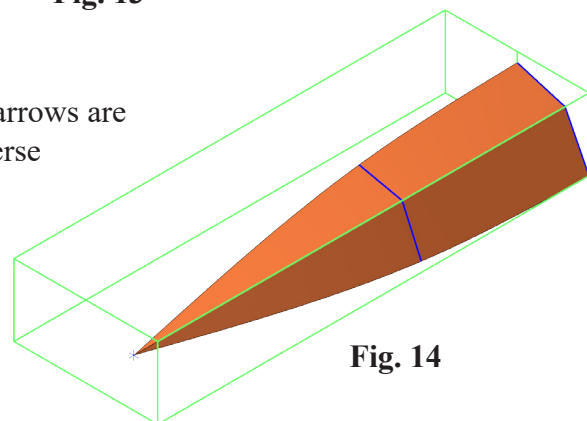


Fig. 14

I. Mirror Surfaces.

Step 1. Click **CPLANE** in Status bar at bottom of the graphics window and click **Front** from the menu, **Fig. 15**.

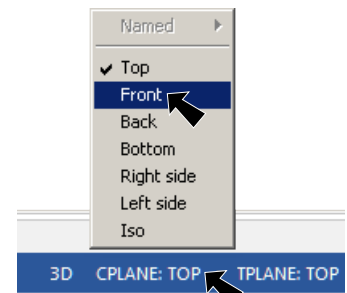
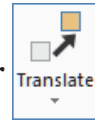
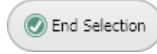


Fig. 15

Step 2. On the Transform tab **TRANSFORM** click **Mirror**.



Step 3. Click **both surfaces** and click **End Selection** (ENTER) **Fig. 16**.



Step 4. In Mirror dialog box:

Select **Copy** , **Fig. 17**

Click **Select line** 

Click **vertical line in rear**, **Fig. 18**

Click **OK** .

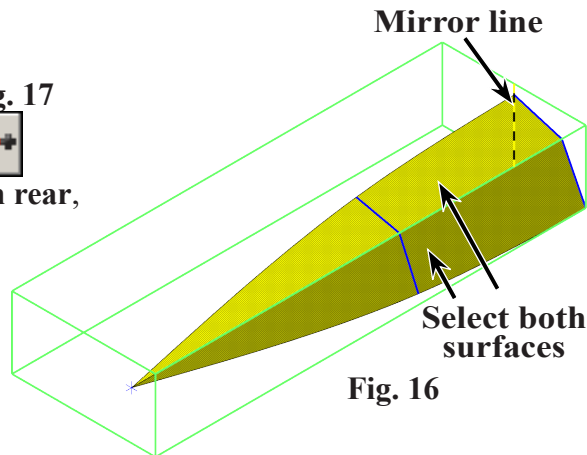


Fig. 16

Step 5. **Right click** the graphics window and click

Clear Colors .

Step 6. Save  (Ctrl-S).

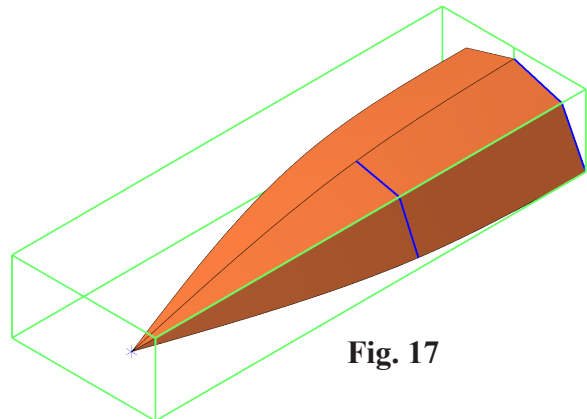


Fig. 17

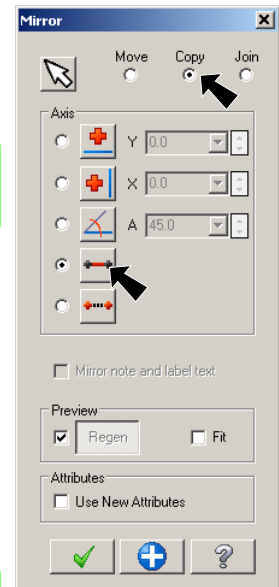


Fig. 17