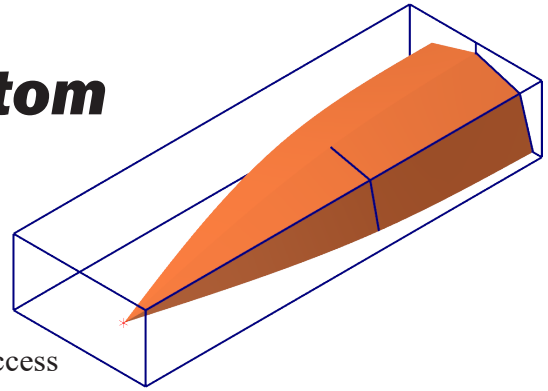


# Boat V Bottom



## 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.

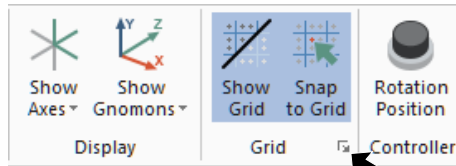
## C. Set Grid and Snap .1.

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

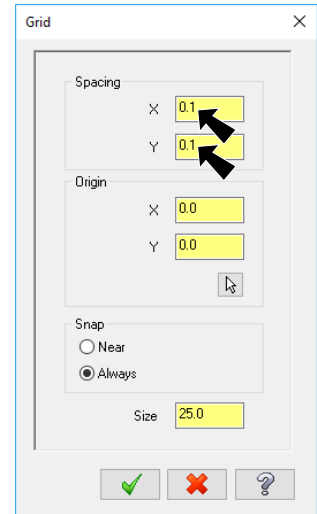


Step 2. Click the **Dialog Box Launcher**  (Alt-G), **Fig. 1**.

Step 3. In the Grid Settings:  
under Spacing, **Fig. 2**  
**X and Y Spacing .1**  
Click OK .

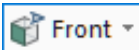


**Fig. 1**

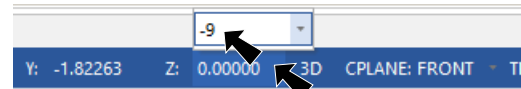


**Fig. 2**

## D. Create Back Rib.


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

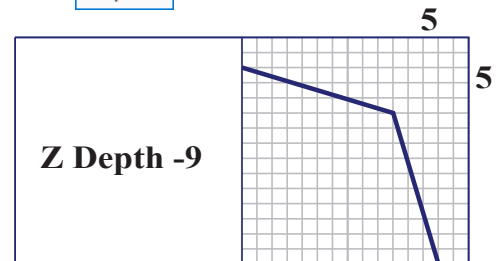
Step 2. Click **Set Z Depth**  **Z: 0.00000** in the status bar at bottom of the display and set **Z depth -9**, **Fig. 3**.



**Fig. 3**

Step 3. On the Wireframe tab  click **Line Endpoints** .

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



**Fig. 4**

## E. Create Mid Rib.

Step 1. Click **Set Z Depth** **Z: 0.00000** in the status bar at bottom of the display and set **Z depth -5.7**, Fig. 5.

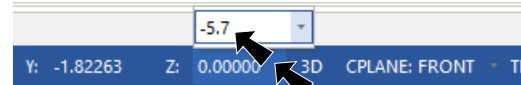


Fig. 5

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

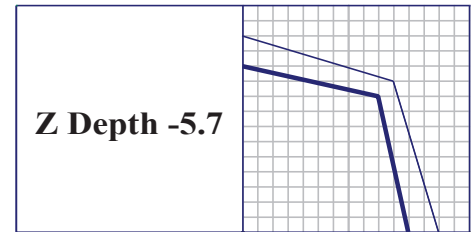
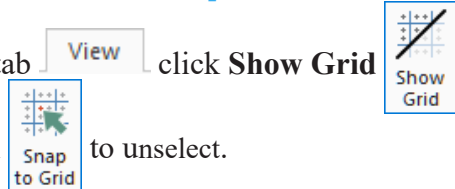


Fig. 6

## F. Turn Off Grid and Snap.

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

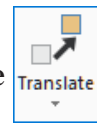


**Snap to Grid** to unselect.

## G. Move Point 1 Inch.

Step 1. Change to the **Isometric View**. **Right click** in the graphics window and click **Isometric (WCS)** (Alt-7).

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



Step 3. Click the **Point** and click **End Selection**

**End Selection** (ENTER) Fig. 7.

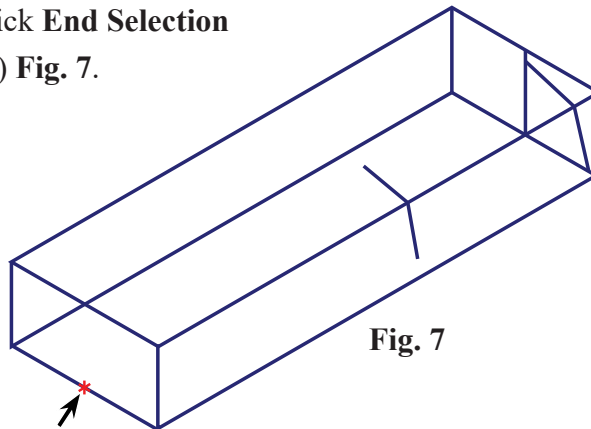


Fig. 7

Step 4. In the Translate function panel set:

under Method, **Fig. 8**

select **Move**

under Delta

**X 0**

**Y 1** and press **ENTER** key.

**Z 0**

Click **OK**.

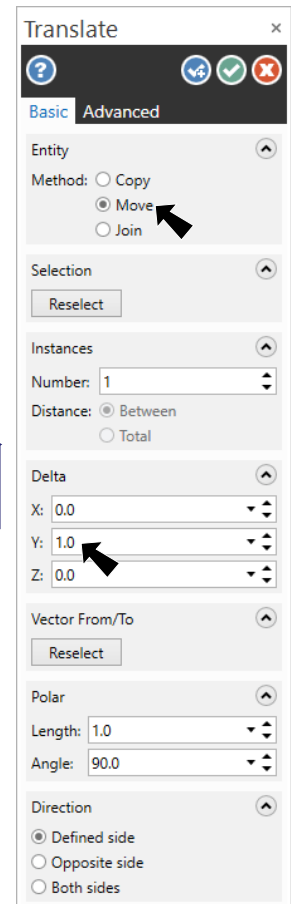


Fig. 8

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

**Colors**.

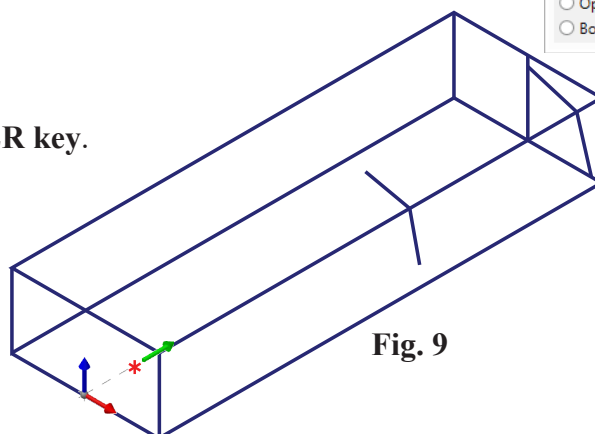




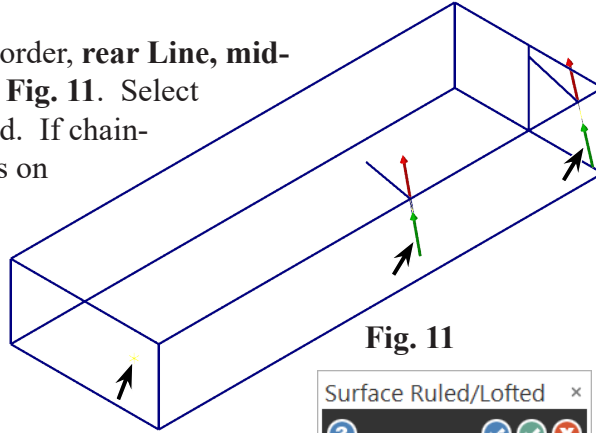
Fig. 9

## H. Create Lofted Surfaces.


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

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

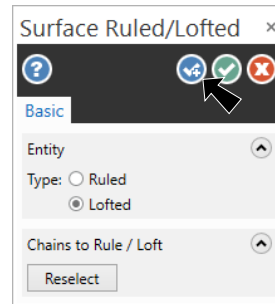
Step 3. Chain rib entities in order, **rear Line, middle Line and Point**, **Fig. 11**. Select Lines at the same end. If chaining directions arrows on Lines do not pointing in the same direction - click Reverse .



**Fig. 11**

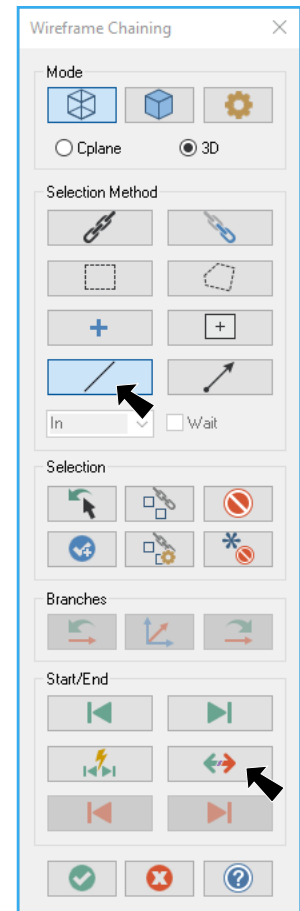
Step 4. Click OK  in Chain dialog box, **Fig. 10**.

Step 5. In Surface Loft function panel: under Entity, **Fig. 12** select **Lofted**




**Fig. 12**


Click OK and Create New Operation .

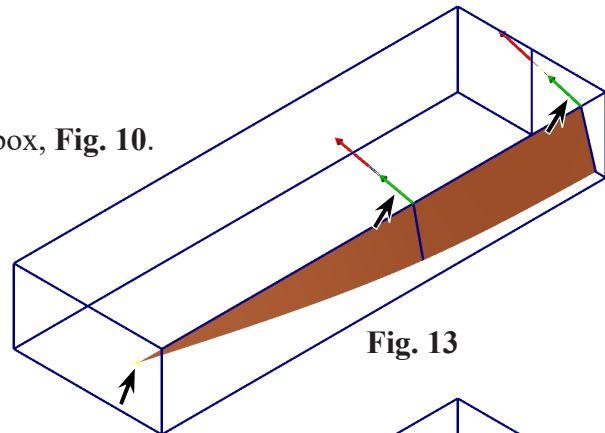


**Fig. 10**

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

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

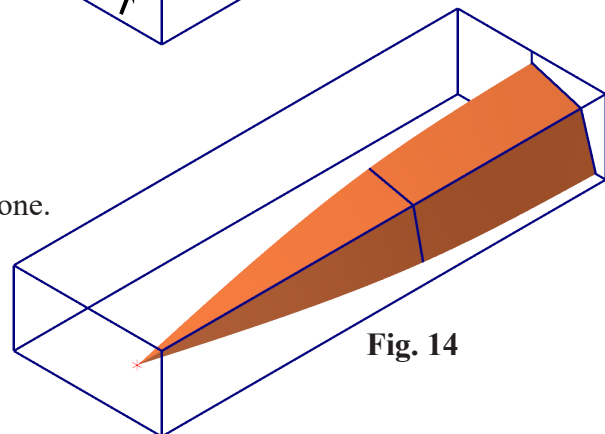
Step 8. Chain the other set of rib entities in order, rear Line, middle Line and Point. Select Lines at the same end, **Fig. 13**. If when chaining the Lines, chaining directions arrows are not pointing in the same direction - click Reverse .



**Fig. 13**

Step 9. Click OK  in Chain dialog box.

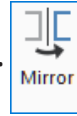
Step 10. In Loft function panel click OK  when done.



**Fig. 14**


## I. Mirror Surfaces.

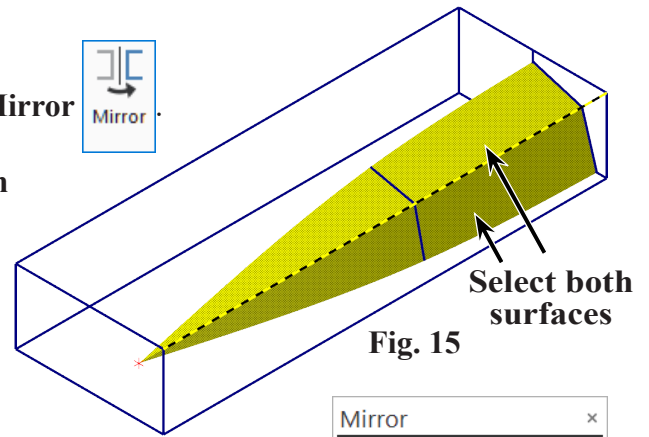
Step 1. On the Transform tab **Transform** click **Mirror**




Step 2. Click the **2 surfaces** and click **End Selection**

 (ENTER) **Fig. 15.**

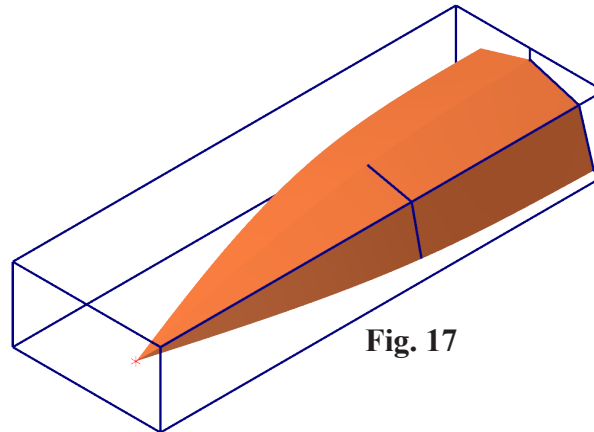
Step 3. In the Mirror function panel set:  
under Method, **Fig. 16**  
select **Copy**  
under Axis  
select **Y axis**  
**X offset 1.5**  
Click OK .



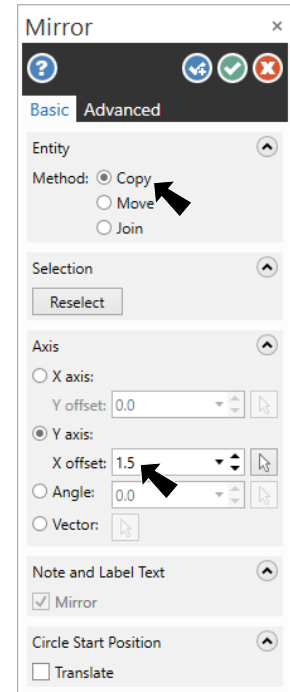
**Fig. 15**

Step 4. **Right click** the graphics window and click **Clear Colors** .

Step 5. Save  (Ctrl-S).



**Fig. 17**



**Fig. 16**