

Chapter 22

CATAMARAN

A. Create Rectangle.

Step 1. MAIN MENU.

Step 2. Create.

Step 3. Rectangle.

Step 4. 1 Point.

Step 5. Set: Width 9 and Height 3.

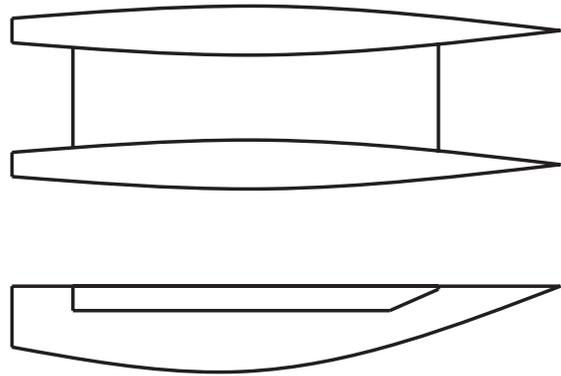
Step 6. For the Placement Point, click the bottom left gray rectangle and click OK.

Step 7. Origin.

Step 8. Use **Alt-F1** or  to fit the drawing on screen.

Step 9. MAIN MENU.

Step 10. Save the drawing. Use: File, Save and **cat** for a filename.



B. Draw Top View Spline.

Step 1. MAIN MENU.

Step 2. Create.

Step 3. Spline.

Step 4. Manual.

Step 5. Click the 3 points in **Fig. 1**. Start with **(0, 2.8)** then **(4.2, 3)** finish with **(9, 2.6)**. Position the cursor as close as possible then click. Press Escape to end the spline.

Step 6. Click the 3 points in **Fig. 2**. Start with **(0, 2.4)** then **(4.2, 2.2)** finish with **(9, 2.6)**. Press Escape to end the spline.

Step 7. Use **F3** to Repaint display.

Step 8. Save your drawing. Use **Alt-A** and press ENTER.

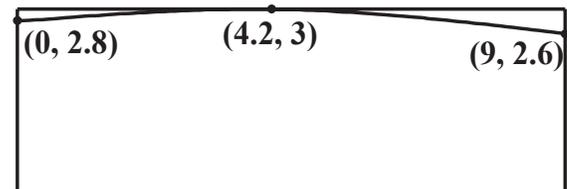


Fig. 1

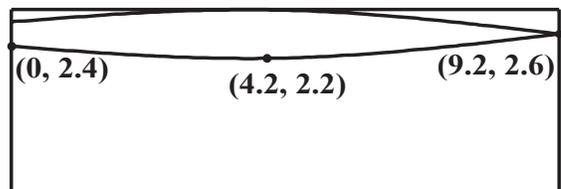


Fig. 2

C. Mirror Starboard Hull.

Step 1. MAIN MENU.

Step 2. Xform.

Step 3. Mirror.

Step 4. Click both splines, **Fig. 3**.

Step 5. Done.

Step 6. 2 Points.

Step 7. Midpoint.

Step 8. Click the left side of the rectangle, **Fig. 3**.

Step 9. Midpoint.

Step 10. Click the right side of the rectangle, **Fig. 3**.

Step 11. Click Copy and OK.

Step 12. Click the Clear Screen Colors Tool .

Step 13. Save your drawing. Use **Alt-A** and press ENTER.

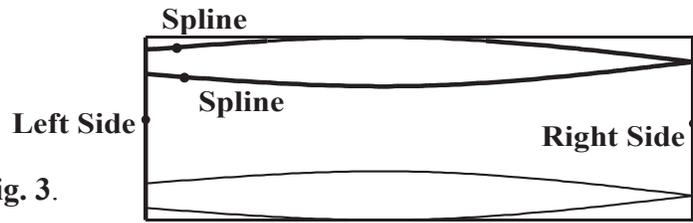


Fig. 3

D. Create Rectangle For Side View.

Step 1. MAIN MENU.

Step 2. Create.

Step 3. Rectangle.

Step 4. 1 Point.

Step 5. Set: Width **9** and Height **1.4**.

Step 6. For the Placement Point, click the bottom left gray rectangle and click OK.

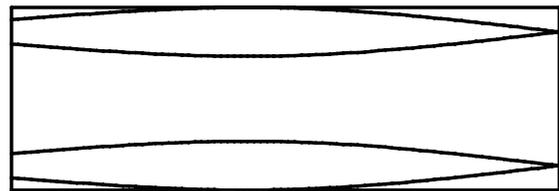


Fig. 4

Step 7. Key-in **0, -3** and press ENTER. Do not forget the minus sign for the -3.

Step 8. Use **Alt-F1** or  to fit the drawing on screen.

Step 9. MAIN MENU.

E. Draw Side View Hull Spline.

Step 1. MAIN MENU.

Step 2. Create.

Step 3. Spline.

Step 4. Manual.

Step 5. Click the 3 points in, **Fig. 5**. Start with **(0, -2.6)** then **(3.8, -3)** finish with **(9, -1.6)**. Press Escape to end the spline.

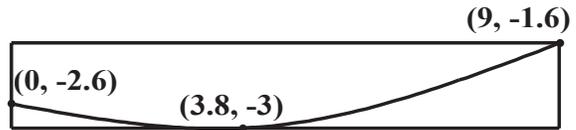
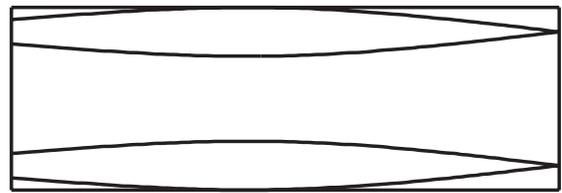


Fig. 5

Step 6. Use **F3** to Repaint display.

Step 7. Save your drawing. Use **Alt-A** and press ENTER.

F. Delete And Trim Hull Lines.

Step 1. Lines 1 through 7, **Fig. 6** are no longer needed. Use **F5** to delete them. Press **F5** then click the 7 lines. Press ESC to exit delete.

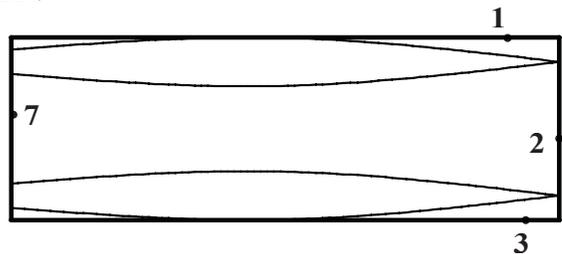


Fig. 6

Step 3. MAIN MENU.

Step 4. Create.

Step 5. Line.

Step 6. Endpoint.

Step 7. Draw the stern lines in both views, **Fig. 7**.

G. Wood Base.

Step 1. Change the color to **tangerine**. Click the color swatch in the Secondary Menu. Click the 16/256 Button. Click tangerine, number 94 and click OK.

Step 2. MAIN MENU.

Step 3. Create.

Step 4. Rectangle.

Step 5. 1 Point.

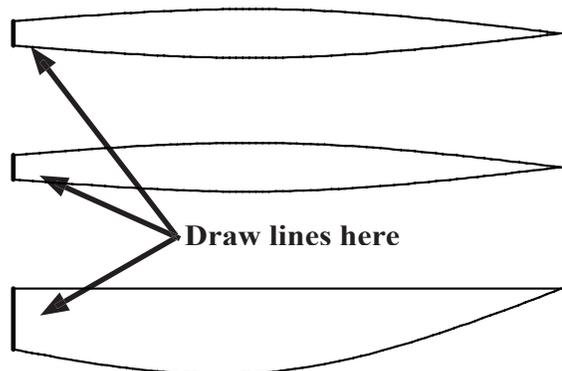


Fig. 7

Step 6. Set: Width **6** and Height **1.8**.

Step 7. For the Placement Point, click the bottom left gray rectangle and click OK.

Step 8. Key-in **1, .6** and press ENTER, **Fig. 8**.

Step 9. BACKUP.

Step 10. 1 Point.

Step 11. Set: Width **6** and Height **.4**.

Step 12. For the Placement Point, click the bottom left gray rectangle and click OK.

Step 13. Key-in **1, -2** and press ENTER, **Fig. 8**.

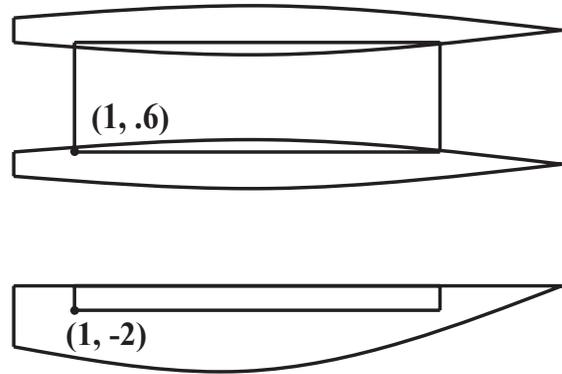


Fig. 8

H. Trim Wood Base And Delete Two Lines.

Step 1. MAIN MENU.

Step 2. Modify.

Step 3. Trim.

Step 4. 1 Entity.

Step 5. Trim Line 1, **Fig. 9**. Click the line to trim at Position 1, then trim to the spline at Position 2. Repeat at the other end. Click Position 1 then Position 2.

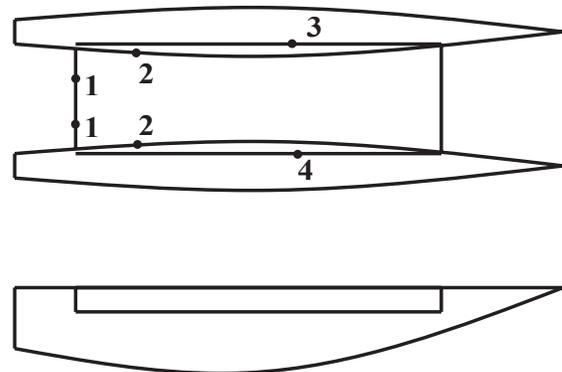


Fig. 9

Step 6. Delete Line 3 and 4, **Fig. 9**. Use **F5** to delete. Press **F5** then click Line 3. Press ESC to exit delete. Use **F3** to redraw the display.

I. Chamfer Base In Side View.

Step 1. MAIN MENU.

Step 2. Create.

Step 3. Next Menu.

Step 4. Chamfer.

Step 5. Set: **2 Distances**.
Distance 1 = **.35**
Distance 2 = **.8** and click OK, **Fig. 10**.

Step 6. Click Line 1 then click line 2, **Fig. 11**.

Step 7. Save your drawing`. Use **Alt-A** and press ENTER.

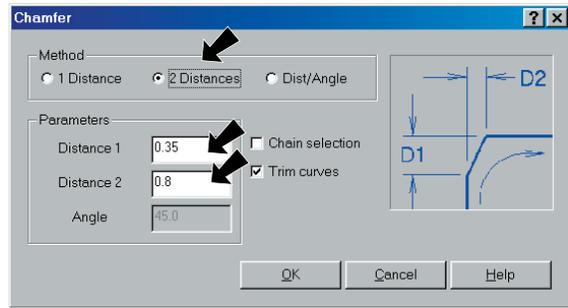


Fig. 10

J. Add Your Name And Period To Drawing.

Step 1. Use **Page Down** to reduce the drawing. Use: **Create, Drafting, Note** commands to add your names and period to the drawing.

Step 2. Save your drawing. Use **Alt-A** and press ENTER.

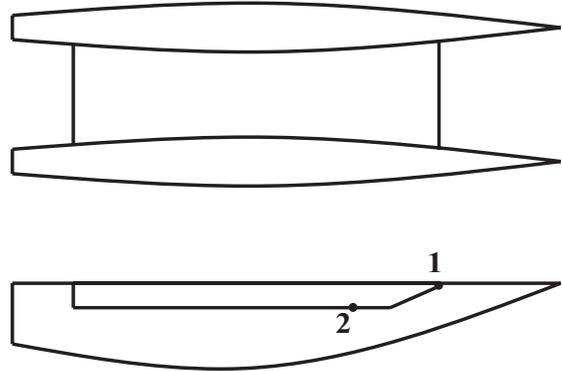


Fig. 11