

# Chapter 6 6 POINT STAR

## A. OPEN B FILE.

Step 1. When you start a new drawing away start with the B file. If you started this drawing as the B file go directly to Steps B. If your did not start as the B file complete these Steps: Click **Open** from the File Menu. Click **No** to save current part. Key in **a:b** for the filename and press ENTER.

## B. CREATE TWO 6 SIDED POLYGONS.

Step 1. ESC to Main Menu.

Step 2. F1 CREATE.

Step 3. F8 POLYGON.

Step 4. F1 CENTER AND RADIUS.

Step 5. Key in **6** for Number of Sides and press ENTER.

Step 6. Key in **30** for Rotation Angle and press ENTER.

Step 7. Key in **2.9** for Radius and press ENTER.

Step 8. F1 CORNER.

Step 9. F1 OUTLINE.

Step 10. F9 KEY IN.

Step 11. Key in:  
Zero (**0**) for coordinate X and press ENTER.  
**0** for Y and press ENTER.  
**0** for Z and press ENTER, **Fig. 1.**

Step 12. Use **ALT-A** to center the polygon on the screen. Hold down ALT and press A.

Step 13. F10 BACKUP **five times** to choose option.

Step 14. Key in **0** for Rotation Angle and press ENTER.

Step 15. Key in **1.1** for Radius and press ENTER.

Step 16. F1 CORNER.

Step 17. F1 OUTLINE.

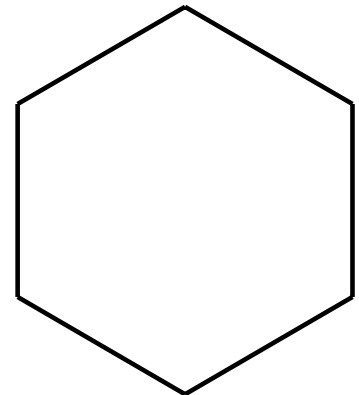
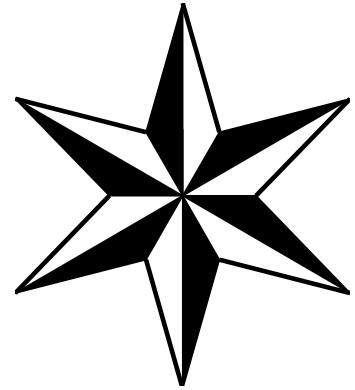


FIG. 1

<b>Fit on Screen ALT-A</b>	<b>Delete CTRL-Q</b>	<b>Redraw CTRL-R</b>	<b>Half Size ALT-H</b>
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Step 18. F9 KEY IN.

Step 19. Key in:

Zero (0) for coordinate X and press ENTER.

0 for Y and press ENTER.

0 for Z and press ENTER, **Fig. 2.**

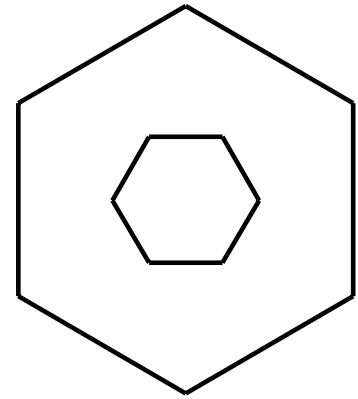


FIG. 2

### C. SAVE TO DISK.

Step 1. Click **Save As** from the File Menu.

Step 2. Key in **a:6star** for the filename and press ENTER.

Step 3. Press **ESC** for Part Description.

### D. DRAW LINE IN CENTER.

Step 1. Draw the next lines in a different color. Change the color to **red**. Click the color swatch in the side Tool Bar. Click the red, number 2.

Step 2. ESC to Main Menu.

Step 3. F1 CREATE.

Step 4. F1 LINE.

Step 5. F1 ENDPOINTS.

Step 6. F1 CURSOR. Draw the line in **Fig. 3**. Use the grid to determine the location of the lines.

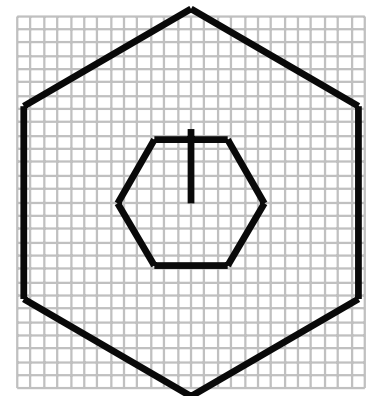


FIG. 3

### E. TURN OFF GRID AND SNAP.

Step 1. Turn off the Grid and Snap. Use **CTRL-G**. Hold down CTRL and press G.

Step 2. Click **Off** in **Grid Properties Display**, **Fig. 4.**

Step 3. Click to **uncheck Active** in **Snap Properties**. Click OK, **Fig. 4.**



FIG. 4

### F. DRAW THE FILLED POINTS.

Step 1. ESC to Main Menu.

Step 2. F1 CREATE.

Step 3. F8 POLYGON.

<b>Fit on Screen ALT-A</b>	<b>Delete CTRL-Q</b>	<b>Redraw CTRL-R</b>	<b>Half Size ALT-H</b>
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Step 4. F4 STRING.

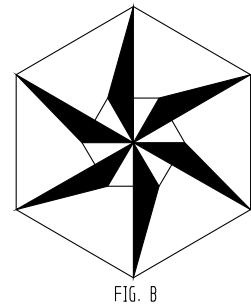
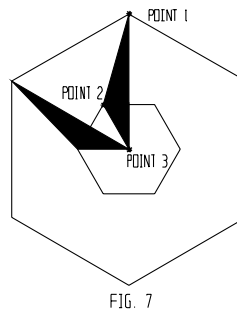
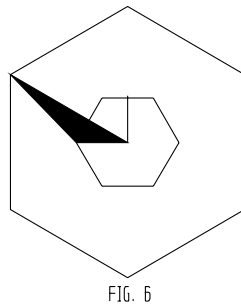
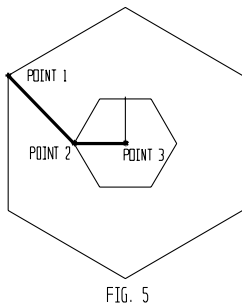
Step 5. F2 FILLED.

Step 6. Click the red swatch and click OK.

Step 7. F3 ENDENT. Endent will perform a search and locate the exact corner you are drawing a line to.

Step 8. Move the cursor to Point 1 on the big polygon and click, **Fig. 5**. Stretch the line to Point 2 on the small polygon and click. Continue the line to Point 3 at the center of the polygons and click. Press ENTER to close the polygon, **Fig. 6**.

Step 9. Continue and draw the second point of the star. Start from the big polygon, Point 1 to the small polygon, Point 2 on the big polygon and click Point 3 at the center of the polygons, Press ENTER to close the polygon, **Fig. 7**. Draw the other points of the star. **Fig. 8**.



Step 10. Save the drawing. Use **CTRL-S**.

### G. DRAW THE LINES.

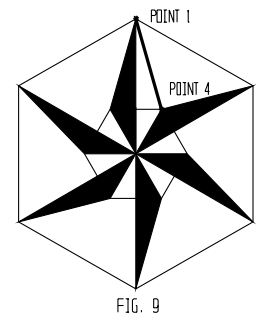
Step 1. ESC to Main Menu.

Step 2. F1 CREATE.

Step 3. F1 LINE

Step 4. F1 ENDPOINTS.

Step 5. F3 ENDENT. Endent will perform a search and locate the exact corner you are drawing a line to.



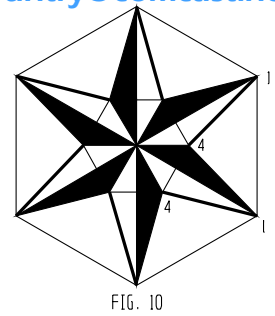
Step 6. Move the cursor to Point 1 on the big polygon and click, **Fig. 9**. Stretch the line to Point 4 on the small polygon and click.

Fit on Screen ALT-A	Delete CTRL-Q	Redraw CTRL-R	Half Size ALT-H
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Step 7. Draw the other lines, click Point 1 on the big polygon and click Point 4 on the small polygon, **Fig. 10**.

Step 8. Use CTRL-R to clear temporary markers. Hold down CTRL and press R.

Step 9. Save the drawing. Use CTRL-S.



#### **H. DELETE THE TWO POLYGONS.**

Step 1. The polygons are no longer needed. Use CTRL-Q to delete them. Hold down CTRL and press Q. Select the polygons with clicks and press ENTER, **Fig. 8**.

#### **I. ADD YOUR NAME AND THE PERIOD.**

Step 1. Use Alt-H to reduce the drawing half size. Hold down ALT and press H. Use: **Detail, Note, Key-In** commands to add text.

Step 2. Save the drawing. Use CTRL-S.

