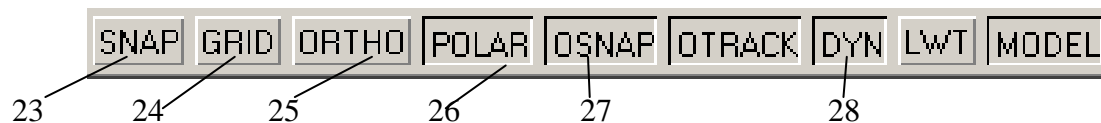
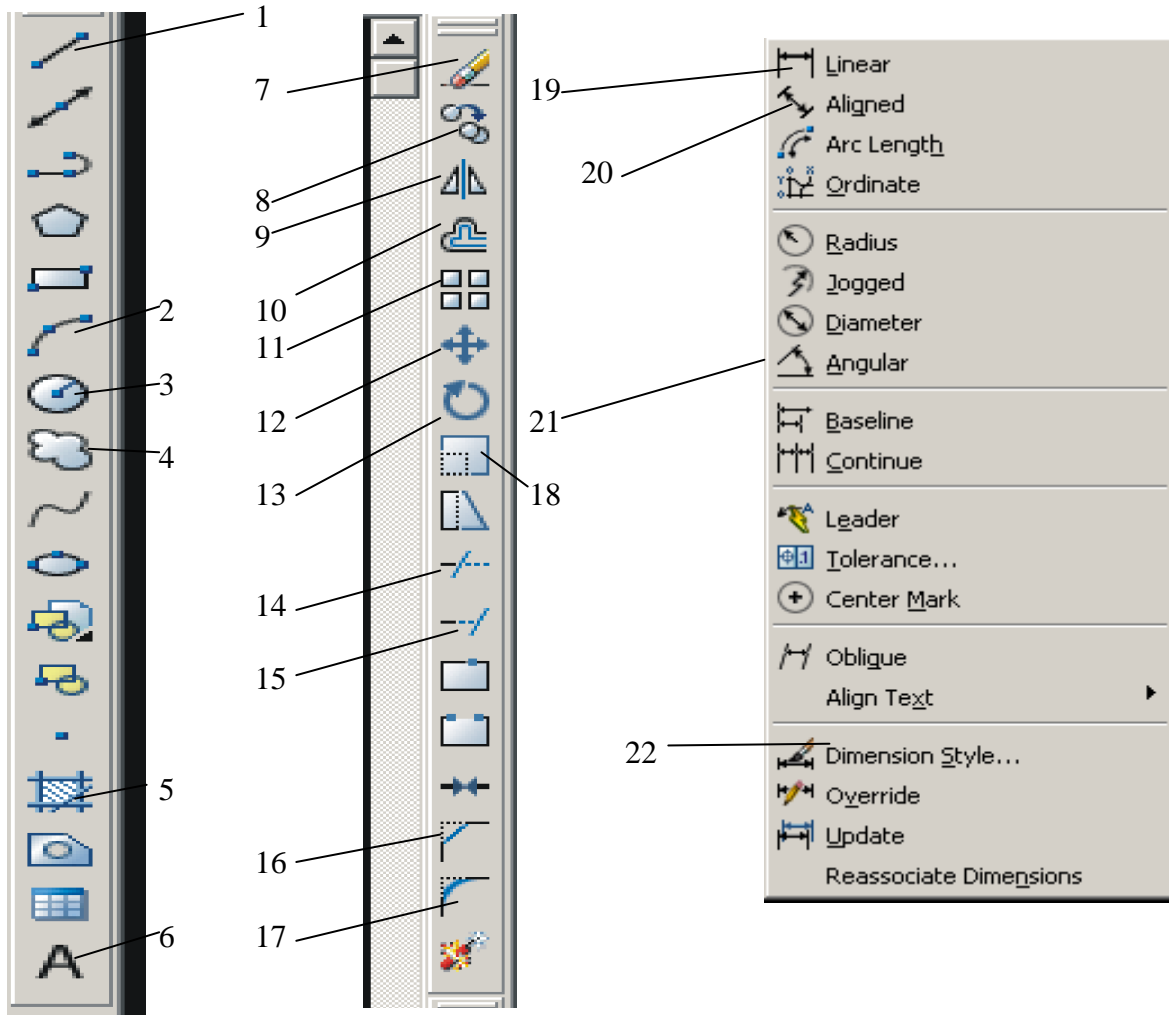


CAD notes

Give a definition for each short cut and a description of what it does.



CAD = COMPUTER AIDED DRAFTING

1. _____: Most commonly used command in AutoCAD

There are several different ways to start the line command: you can set co-ordinate or just click away. You must first specify line type as required. Thickness new 2007, Show Hidden.

- i) Hit the shortcut button.
- ii) Type line on the command prompt and then hit enter.
- iii) Type L on the command prompt and then hit enter.
- iv) If line was your last command hit the enter key.
- v) If line command was your last command hit spacebar.
- vi) If line was your last command right click on mouse.
- vii) Use the drop down command (Draw Line)

2. ____ command there are THREE points in arc beginning middle and end (remember middle).

3. Circle command, after clicking the shortcut or typing 'circle' in command prompt, your first click afterwards is the center point. You then set diameter or radius which ever you want. (Watch display).

4. Revision circle:

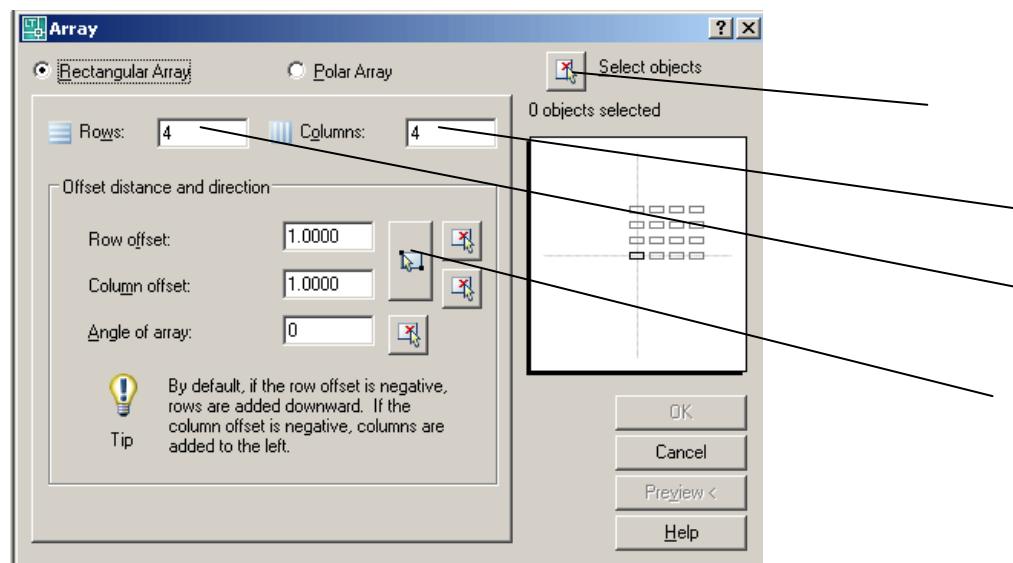
5. _____ key **command to fill in SEALED AREAS!!!. You can enter solid colors or you can put in brick concrete etc.**

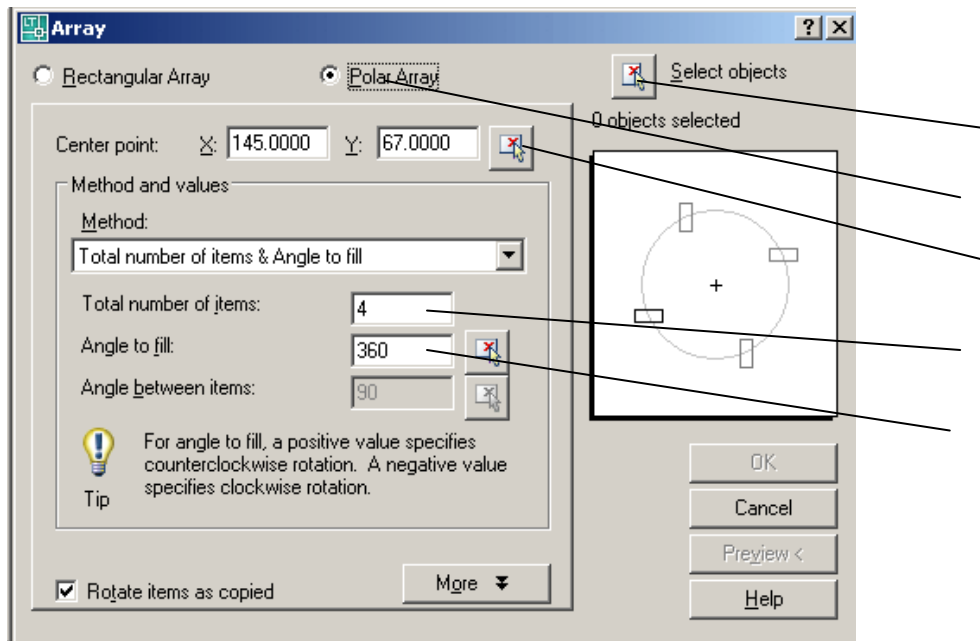
6. text shortcut and text command. Remember Height and starting point.

7. Erase tool.

8. Copy tool, important to know how to use the multiple copy tool (used in industry).

9. Mirror command. Mirror selected object across specified line.





10. _____. Copy's a specified object a specified distance away.

11. **Array command Polar and rectangular, important to know how to do both!!!!!!**

12. Move: Moves selected objects. You must press enter after you have selected all the objects you want even if you 'select all'.

13. Rotate to rotate objects.

14. _____. First specify cutting edge, then press enter. Afterwards press the line that you want to cut, as you hit the line it will trim. Know how to use trim with 2 boundary edges.

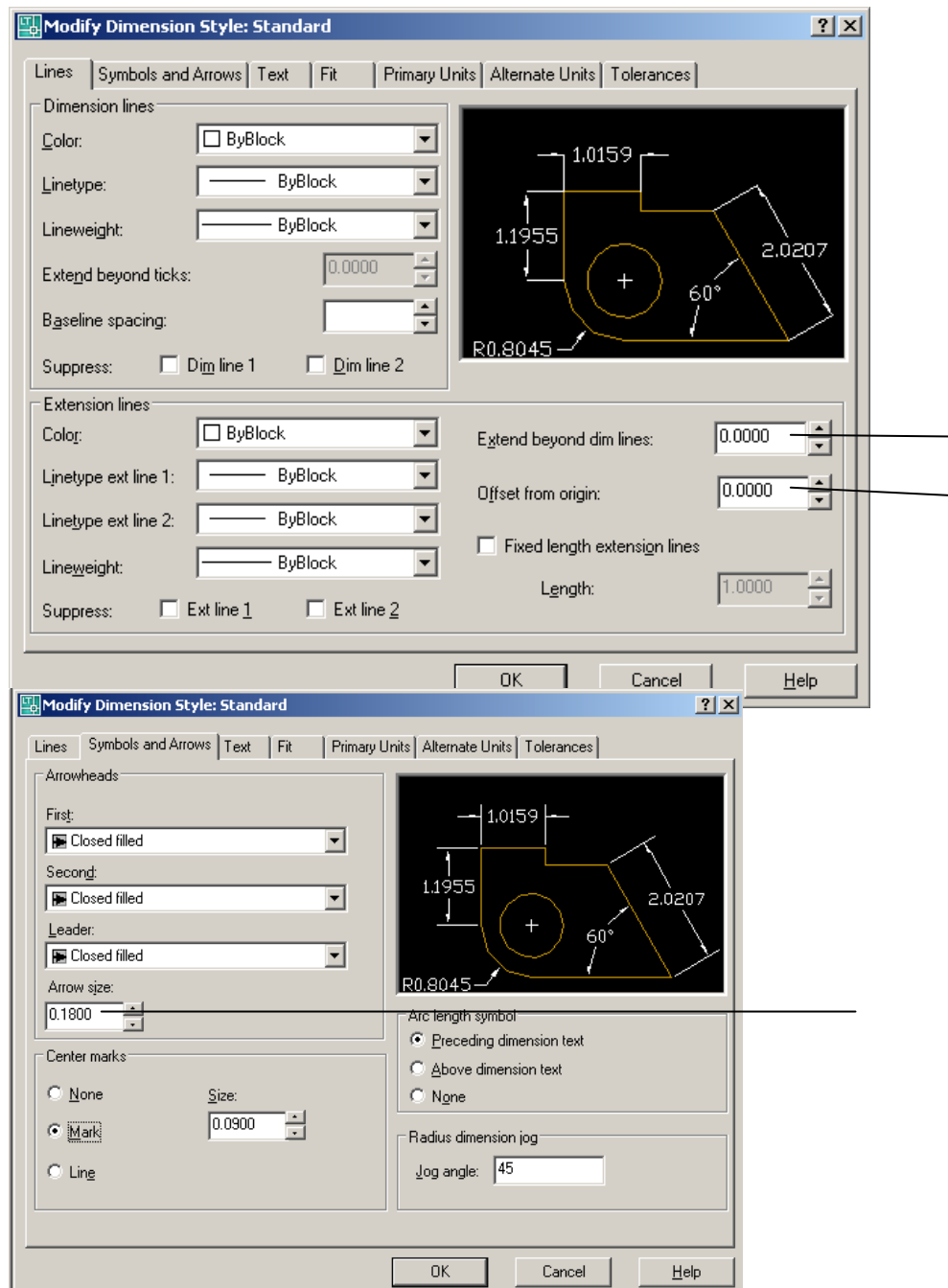
15. _____. Select your boundary edge first, you can select 2 boundaries then click the line that you want to extend if you have selected 2 boundary edges choose carefully.

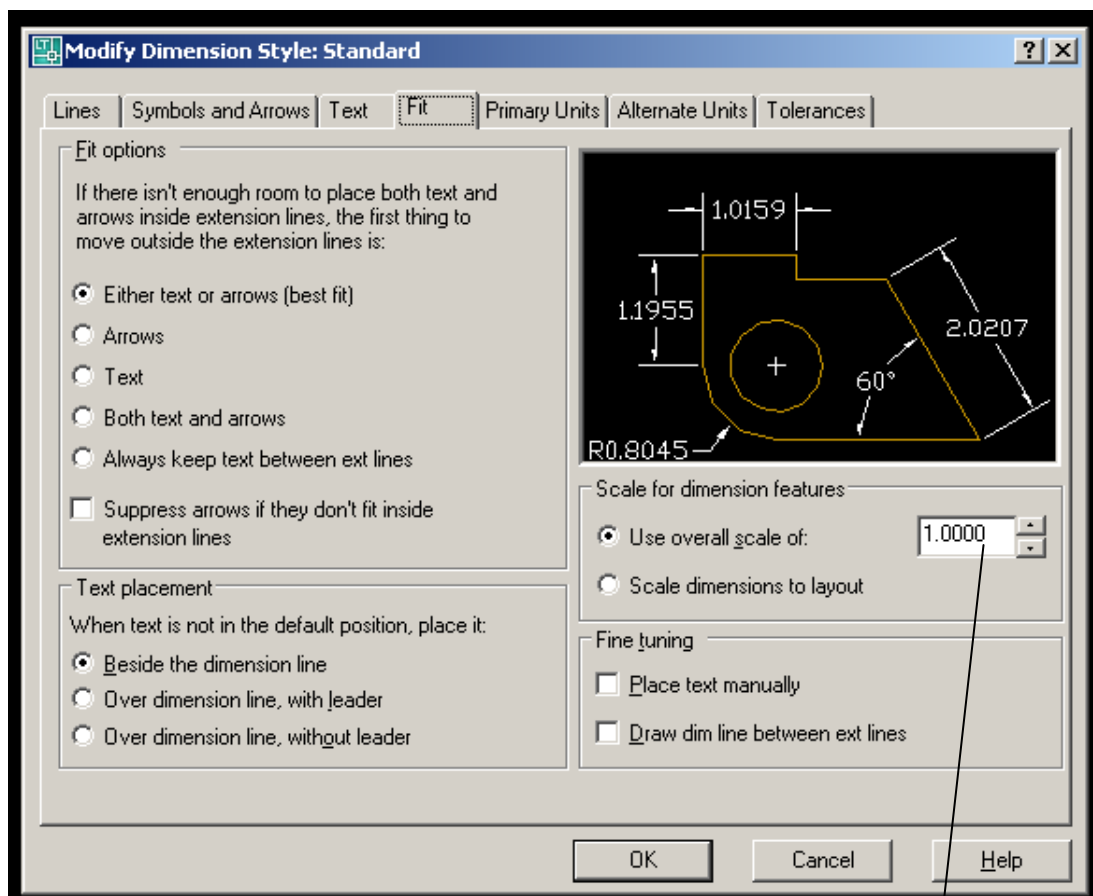
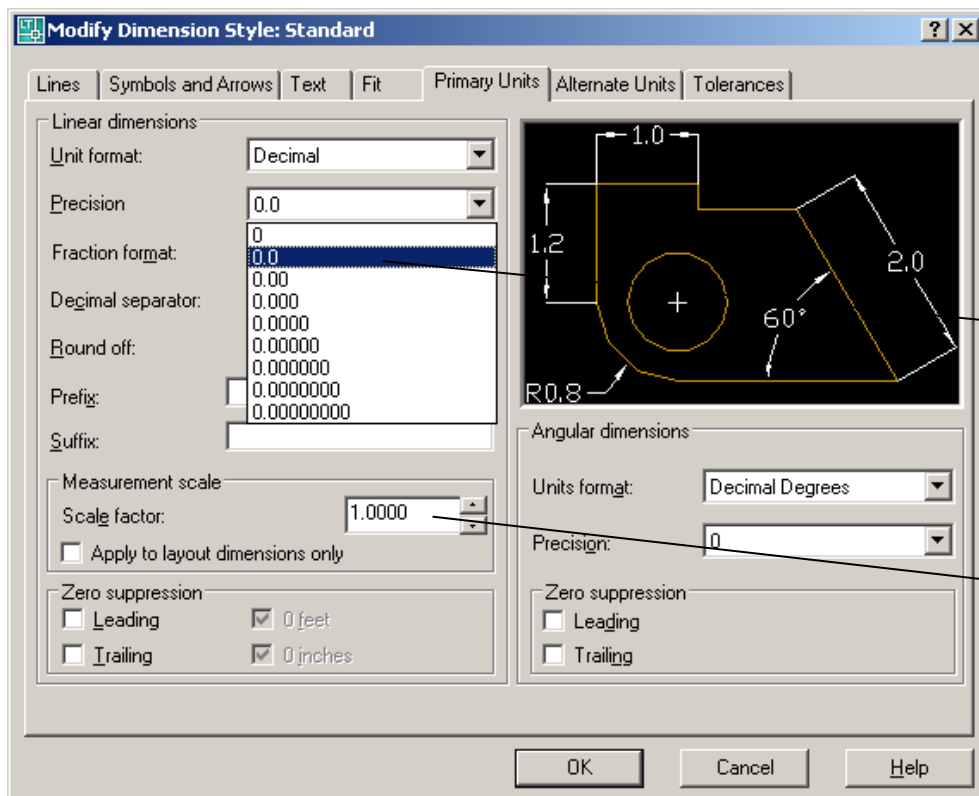
16. _____, you can select the 2 different chamfer lengths, if they are both the same then the corner will have a 45 degree angle. (Choose distance)

17. _____, use this command to round corners a fillet with a radius of 10 would line up with a circle that had a radius of 10 exactly.

18. _____ command: use this command to make objects, bigger or smaller. First select object that you want to change the size of, then press enter when the selection is complete. Next put in your scale factor. 0.5 would be ½ the size and 1.75 would be 75% larger. The command prompt will ask you specify base point. This is the point that you want remain in place.

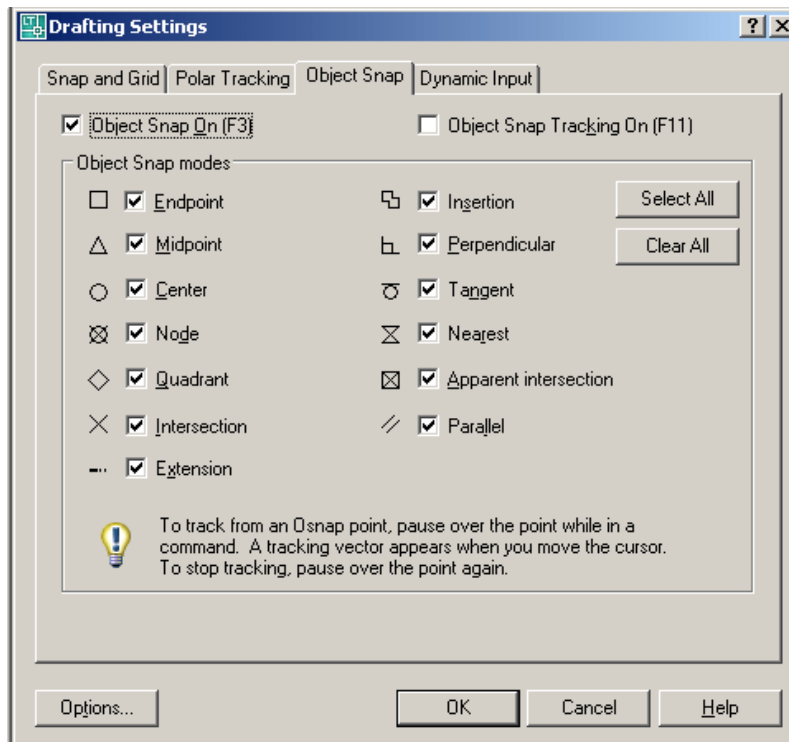
19. _____ dimension: This will give the dimension of the points you pick at 90, 180, 270 and 360 degrees Only. Not necessarily along the line.
20. _____ Dimension: This is the dimension used most in the course. It will measure the shortest distance between the points that you select.
21. _____ dimension: This will give the measured angle between the 2 lines you select.
22. Dimension style. Scale factor can be used (primary units).

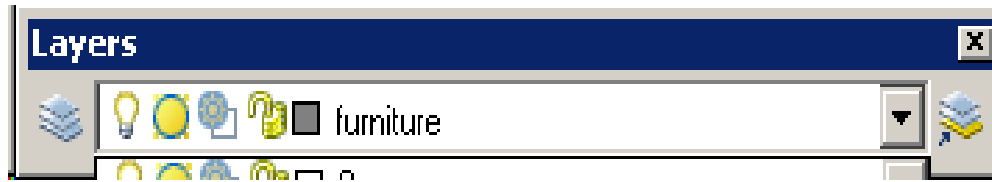




23.Snap is used to snap to the background grid so that everything is spaced properly. Snap can be set but should somewhat match the grid.

24.Grid is used for setting up a pattern in the background to snap to.





25. Ortho is used to draw objects at 90, 180, 270 and 360 degrees Only you can not draw on any other objects. It can not be used at the same time that Polar is used.

26. Polar: This command is used to set angle snap lines, if you set your polar to 30 degrees then every 30 degrees a line will snap to show that you are on a 30 degree angle. It can not be used at the same time that Ortho is used.

27. OSNAP is used to snap objects to certain points. This feature can be turned on and off.

28. DYN (Dynamic Input) is used so that you can see your prompt on screen ie) not at the command prompt.

29. Layers in AutoCAD DEMO

30. EXPLODE feature used on Blocks.

31. Tips and tricks (LEFT DRAG VS RIGHT DRAG) Do your template first (making sure dimensions are to proper scale).

32. Hidden lines. Use Line types and Global scale factor.