

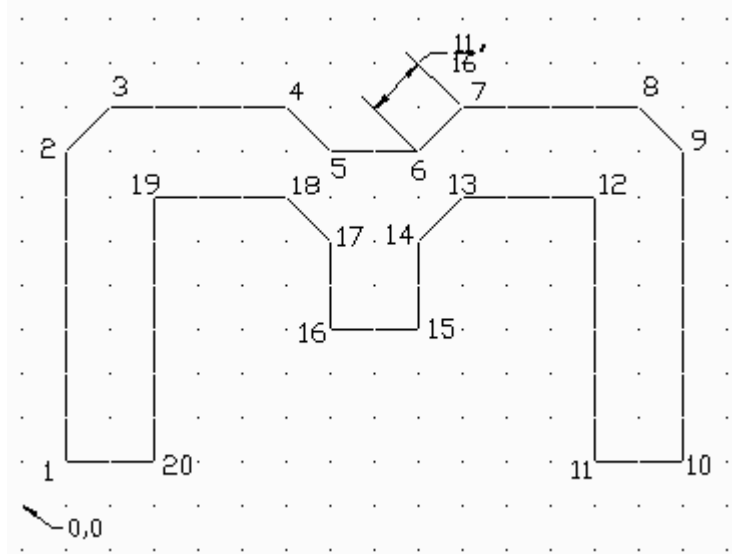
**AutoCAD 2008: One Step at a Time**  
**Lesson 2: Drawing Basics – Lines, Circles, and Coordinates**

<b>08R2</b>	<b>Exercises</b>
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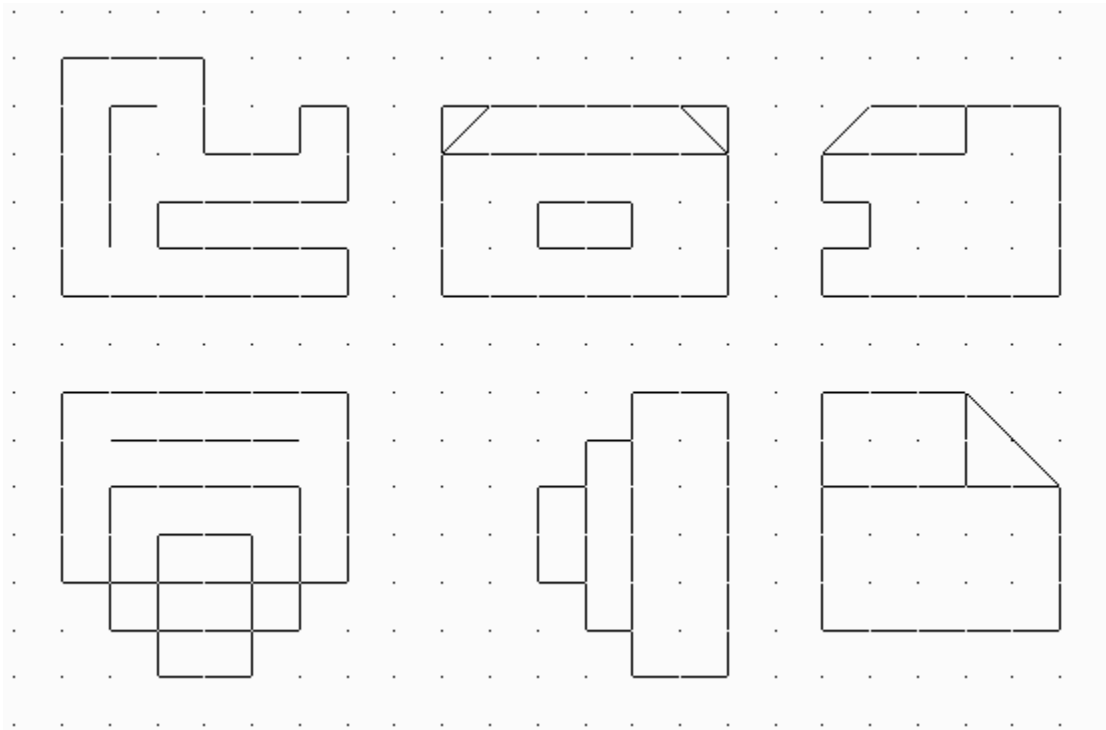
Refer to Exercise #1 (next page) for the following table.

<b><u>POINT</u></b>	<b><u>ABSOLUTE</u> <u>(X,Y)</u></b>	<b><u>RELATIVE</u> <u>(@X,Y)</u></b>	<b><u>POLAR</u> <u>(@DIST&lt;ANGLE)</u></b>
1	1,1	1,1	1,1
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
Back to 1			

- Using what you've learned, fill in the blanks (in the table on the previous page) with the command entries needed to draw the structure at right. Use each of the Cartesian coordinate methods – absolute, relative, and polar. Then draw the object using each of the methods and the dynamic methods we discussed. (Grid marks are  $\frac{1}{2}$ " apart.) Save the drawing as *MyM.dwg* in the C:\Steps\Lesson02 folder.



- Create a drawing(s) using either templates or wizards. Draw each of the figures shown below. (Grid marks are  $\frac{1}{2}$ " apart.) Save the drawing as *MyLines.dwg* in the C:\Steps\Lesson02 folder.





Please write your answers on a separate sheet of paper.

1. Drafting is the placing of \_\_\_\_\_ on paper to represent objects.

All geometric shapes can be formed by the constructive use of what two objects?

2.

3.

What two entries can I use at the command or dynamic input prompt to begin to draw a line?

4.

5.

To erase my line, what two things can I enter at the command or dynamic input prompt?

6.

7.

8. To exit a command before it is finished, hit the \_\_\_\_\_ key.

9. To draw a line from the last selected point back to the first selected point, type \_\_\_\_\_.

10. A \_\_\_\_\_ is a multi-segmented line.

11. Hit \_\_\_\_\_ on the keyboard to repeat the last command.

12. The \_\_\_\_\_ option of the Rectangle command will cause the rectangle to have rounded corners.

13. How would you enter one-foot-six-and-one-half-inches in AutoCAD?

14. AutoCAD reads a keyboard spacebar entry as an \_\_\_\_\_.

Identify these buttons:



15    16    17    18    19

20. An implied window drawn from right to left is a (window, crossing window).

21. How many planes are in the Cartesian Coordinate System?

22. Name them.

23. The \_\_\_\_\_ axis runs vertically.

24. The \_\_\_\_\_ axis runs horizontally.

25. A point located at 3,2 is \_\_\_\_\_ spaces right of zero.

Name the three types of AutoCAD coordinates.

26.

27.

28.

Identify these methods of entering coordinates:

29. X,Y

30. @X,Y

31. @dist<Angle

32. I would type \_\_\_\_\_ at the command prompt to redraw or refresh AutoCAD's screen.

33. I would type \_\_\_\_\_ to regenerate an AutoCAD drawing.

34. (T or F) If an entity doesn't appear after typing regen, it is not part of the drawing.

List three ways to select a group of objects:

35.

36.

37.

38. (T or F) The U command will undo all procedures completed prior to the last save.

39. (T or F) When using the Redo command, a drafter can restore only the last procedure undone by the Undo or U command.

40. To erase one or a series of objects, the user will

- a. select the object or objects
- b. tell the Erase command how many objects to select
- c. confirm the end of selection by hitting enter.

41. (T or F) The Cartesian Coordinate System has an X and a Y axis.

42. A point on the Cartesian Coordinate system is found by which method?

- a. absolute (x, y)
- b. relative (@x,y)
- c. polar (@dist.<angle
- d. all three

43. The Polar entry method most closely resembles the \_\_\_\_\_ coordinate system.

44. Use the \_\_\_\_\_ key on your keyboard to move between dynamic entry boxes.

45. \_\_\_\_\_ is the hotkey for the Circle command.

46. The 2P option of the Circle command allows the user to draw a circle by identifying 2 points which define the circle's \_\_\_\_\_.

47. \_\_\_\_\_ identifies the size of the circle for the TTR option of the Circle command.

48. The options of the Circle command include:
- a. center point
  - b. tan tan radius
  - c. both a and b
49. (T or F) When using the Tan Tan Rad option of the Circle command, the user doesn't need to identify objects to which the circle will be tangent.

Answers:

1. Geometric Shapes
2. Lines
3. Circles
4. Line
5. L
6. Erase
7. E
8. ESC
9. C
10. Polyline
11. Enter
12. Fillet
13. 1'6-1/2
14. Enter
15. Line
16. Rectangle
17. Undo
18. Redo
19. Erase
20. Crossing Window
21. 3
22. X, Y, Z
23. Y
24. X
25. 3
26. Absolute
27. Relative
28. Polar
29. Absolute
30. Relative
31. Polar
32. R
33. Regen (or re)
34. T
35. Selection Box
36. Window
37. Crossing Window
38. F
39. T
40. a and c are correct
41. T
42. d is correct
43. Polar
44. TAB
45. C
46. Diameter
47. R Or Radius
48. F
49. T