

3D AutoCAD 2007: One Step at a Time

Review Questions – Lesson 1

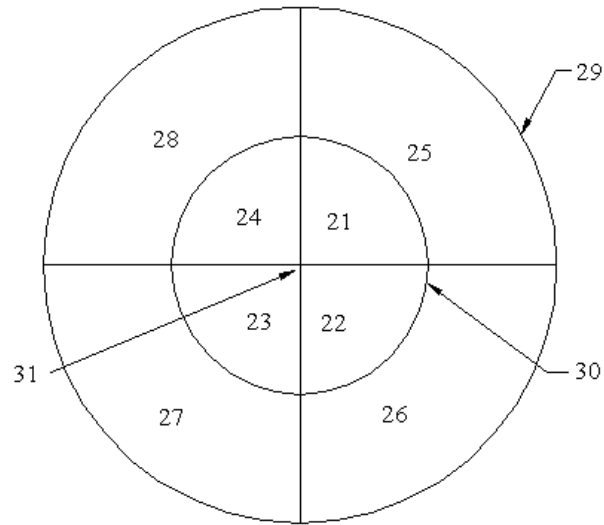
07R1-3D

Review Questions

Please write your answers on a separate sheet of paper.

1. Who was Mr. Woopie?
2. _____ refers to the area above and below a drawing board.
3. Use the _____ icon to help determine where you are in a 3-dimensional drawing.
4. & 5. Use the _____ option of the _____ command to require the UCS Icon to remain at the 0,0,0 coordinate regardless of the display.
6. To turn the UCS icon off in all viewports, you must first select the _____ option of the UCSIcon command.
7. An _____ view is when the absolute value of the all three axes is the same.
8. What type of view results from a viewpoint ratio of 1,-2,1?
9. What is the viewpoint ratio in a plan view?
10. Write the coordinate ratio for a rear elevation.
11. through 13. List three ways to reset the viewpoint.
14. When resetting your viewpoint, the _____ provides a visual representation of your view.
15. Use the _____ command to return to a viewpoint of 0,0,1 (a plan view) from anywhere in z-space.
16. Write the formula for entering spherical coordinates.
17. Write the formula for entering cylindrical coordinates.
18. (T or F) Ortho works only on the XY-plane.
19. (T or F) Object and Polar Tracking work only on the XY-plane.
20. (T or F) OSNAPs work only on the XY-plane.

21. through 31. Identify X, Y, and Z as + or – in the figure at right. Identify the poles and equators as well.



VPoint Compass

32. _____ is that property of an object that takes it from stick figure to a model object.

33. The _____ command enables the user to set the thickness and elevation system variables at one time.

34. Use the _____ palette to change the thickness or elevation of an existing object.

35. (T or F) The Hide command removes lines drawn using the hidden line type.

36. By default, AutoCAD uses _____ light sources.

37. Use the _____ visual style to clear any shading in the model.

38. (T or F) The UCS button or the UCSIcon command may be entered to activate the UCSIcon command.

39. (T or F) Disabling the ORigin option of the UCSIcon command makes the icon move to the 0,0,0 coordinates.

40. (T or F) Use the Off option of the UCSIcon command to remove the icon from the active viewport only.

41. (T or F) Type vpoint or -vp and hit enter at the first prompt to obtain both the tripod and compass.

42. (T or F) When the vpoint command is given, the coordinates of the current view appear on the command line after the word VIEWDIR=.

43. (T or F) The "Set to Plan View" button in the Viewpoint presets Dialog Box, returns the drawing to a normal 2-Dimension view of the drawing.

44. (T or F) In the Viewpoint Presets dialog box, the full compass sets the 2-D angle (in the XY plane) while the half compass sets the 3-D angle (from the XY plane).

45. (T or F) The World option of the Plan command returns the model to a normal 2-D plan view.

46. (T or F) There is only one way to set the angles in the viewpoint presets box and that is with the mouse selection on the compasses.

47. (T or F) The Elev command will permit the user to set both the elevation and thickness as will the Thickness command.
48. (T or F) When the user is finished with the Thickness and Elevation commands, they should be reset to 0.
49. (T or F) After the Elevation system variable is set, a Z axis location is still required even if the Z value is the same as the Elevation setting.
50. (T or F) When Start Z is selected from the Geometry section of the Properties Manager, a pick button appears making it possible to select and redefine the location of selected objects.
51. (T or F) Use the 3D wireframe option to clear the Shademode settings and redisplay the UCS icon.
52. Use the _____ command to change the workspace from AutoCAD's classic screen to the 3D Modeling workspace.
53. In the 3D Modeling workspace, AutoCAD replaces toolbars with the _____.

List the six default control panels available on the dashboard.

- | | |
|-----|-----|
| 54. | 57. |
| 55. | 58. |
| 56. | 59. |

When using the camera approach to adjusting your view, you must first identify which two locations?

- 60.
- 61.

List the five default visual styles.

- | | |
|-----|-----|
| 62. | 65. |
| 63. | 66. |
| 64. | |

67. Use the _____ command to save the current visual style setup.
68. The _____ system variable controls the opacity of objects.
69. The _____ system variable controls shadows in a drawing.

Answers:

- | | | |
|--|------------------|--------------------|
| 1. Cartoon professor who helped Tennessee Tuxedo | 21. +x+y+z | 47. F |
| 2. Z-space | 22. +x-y+z | 48. T |
| 3. Ucs | 23. -x-y+z | 49. F |
| 4. Origin | 24. -x+y-z | 50. T |
| 5. Ucsicon | 25. +x+y-z | 51. F |
| 6. All | 26. +x-y-z | 52. WSCurrent |
| 7. Isometric | 27. -x-y-z | 53. dashboard |
| 8. plan | 28. -x+y-z | 54. 3D Make |
| 9. 0,0,1 | 29. thickness | 55. 3D Navigate |
| 10. 0,1,0 | 30. South Pole | 56. Visual Styles |
| 11. command line | 31. Equator | 57. Light |
| 12. compass | 32. North Pole | 58. Materials |
| 13. dialog box | 33. elev | 59. Render |
| 14. tripod | 34. property | 60. Camera |
| 15. plan | 35. F | 61. Target |
| 16. @dist<Xyangle <Zangle | 36. two | 62. 2D Wireframe |
| 17. @dist<Xyangle ,X-dist | 37. 2D Wireframe | 63. 3D Hidden |
| 18. F | 38. F | 64. 3D Wireframe |
| 19. F | 39. T | 65. Conceptual |
| 20. F | 40. T | 66. Realistic |
| | 41. T | 67. VSSave |
| | 42. T | 68. VSFaceCapacity |
| | 43. T | 69. VSShadows |
| | 44. T | |
| | 45. T | |
| | 46. F | |