Chapter 22 Review

Parametric Drafting

**Name:** **Click here and type your name**

Click in the shaded area and type your answer for each question. Use the [Tab] key to move from one answer field to the next.

 1. Give an example demonstrating how to use constraints to form a geometric construction when standard AutoCAD commands are inefficient or ineffective.

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 2. Describe two applications in which parametric drafting may be unsuitable or ineffective.

 3. Describe the purpose of geometric constraint tools, and identify what you see on-screen that indicates the presence of a geometric constraint.

 4. Name the tool that forms geometric constraints while you draw or edit.

 5. Name the commands that allow you to assign geometric constraints manually.

 6. When you use geometric constraint commands that allow you to pick two objects or points, describe what generally happens to the first and second objects you select.

 7. List the object snaps that infer coincident constraints.

 8. Identify common uses for horizontal and vertical constraints.

 9. Describe how to infer horizontal and vertical constraints.

 10. List the object types that can form parallel or perpendicular constraints.

 11. Name the types of objects you can constrain with the tangent constraint.

 12. What does the collinear constraint allow you to do?

 13. Explain the basic function of the equal constraint.

 14. Describe the default function of the symmetric constraint.

 15. Name the command you can use to attempt to add all required geometric constraints in a single operation.

 16. Describe how to specify the appearance and characteristics of geometric constraint bars.

 17. Compare the appearance of a coincident constraint with the display of other constraints.

 18. Explain how to determine which objects and points are associated with a constraint.

 19. What should you do if constraint bars block your view or if you want to hide constraint bars?

 20. Name the command that allows you to assign linear, diameter, radius, and angular dimensional constraints.

 21. What is the most basic method to specify dimension values when you create a dimensional constraint?

 22. Name the commands that allow you to place a linear dimensional constraint with a dimension line aligned with an angled surface and extension lines perpendicular to the surface.

 23. Which commands allow you to place an angular dimension between two objects or three points?

 24. Explain the options AutoCAD provides when you try to over-constrain a drawing.

 25. Explain how to convert an associative dimension to a dimensional constraint, and give the advantage of using this option.

 26. What happens every time you add a dimensional constraint?

 27. How do you adjust parameters?

 28. Explain how to edit a dimensional constraint value.

 29. Describe how to relax constraints.

 30. Which command provides an efficient method of removing a significant number of constraints in a single operation?