

Name:

Drafting & Design: Section 2 – Chapter 6: Basic Geometric Constructions

1. Designers and drafters regularly apply the principles of _____ to the solution of technical problems.
2. The term _____ refers to dividing a line into equal segments.
3. The Midpoint object snap can be used with the _____ command to bisect an existing line and locate its midpoint.
4. Using the manual drafting method, you can draw a line through a point and parallel to a given line using a triangle and _____.
5. Parallel lines are normally drawn in CAD with what command?

6. In manual drafting, a line can be drawn through a point and perpendicular to a given line using a triangle or T-square or a(n) _____.
7. Name two manual drafting methods used to divide a line into a given number of parts.

8. Which CAD command is used to divide a line into a given number of equal parts?

9. What two CAD commands can be used to transfer an angle?

10. A _____ is a line or plane drawn at a right angle to a given line or plane.
11. _____ coordinates are used to draw lines at a given distance and angle from a specified point.
12. Which of the following is *not* a regular polygon?
 - A. Square
 - B. Pentagon
 - C. Hexagon
 - D. Trapezoid

13. What type of triangle has three equal sides and three equal angles of 60° each?

14. What is the **Polygon** command used for?

15. What type of triangle has two equal sides and two equal angles?

16. A right triangle has one _____ degree angle.

17. A(n) _____ is a regular polygon with four equal sides.

18. The _____ option of the **Polygon** command is used to inscribe a polygon within a circle.

19. In a regular pentagon, each of the interior angles measures _____.

A. 108°

B. 110°

C. 112°

D. 114°

20. A(n) _____ is a polygon with six sides.

21. Using CAD, a plane figure can be transferred to a new location by using the _____ command.

22. In manual drafting, the first step in duplicating a plane figure with irregular curves is to _____.

23. What CAD command is used to enlarge or reduce objects in size?

24. A(n) _____ is any part of a circle or other curved line.

25. What CAD command is used to draw circles?

26. A(n) _____ is a line or curve that touches the surface of a circle or an arc at only one point.

27. What CAD command is used to trim away unwanted portions of a construction?

28. Laying off the circumference of a circle is also referred to as locating the true length or _____ length.
29. The circumference of a circle may be calculated very accurately by multiplying the diameter by _____.
30. Name four items of data identified for a circle when using the **List** command.
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31. The _____ length is the length of a line that connects the endpoints of an arc.