

**10-24-2011      Sketching Quiz: ME 110 (Due 1-31-11)      Name \_\_\_\_\_**

Multiple Choice: Circle the letter for the correct answer to the question.

1. What is the definition of a horizon line?      a    b    c    d    e    f    g    h    i    j
2. What is the definition of center lines?      a    b    c    d    e    f    g    h    i    j
3. What is the definition of hidden lines?      a    b    c    d    e    f    g    h    i    j
4. What is the definition of section lines?      a    b    c    d    e    f    g    h    i    j
5. What is the definition of cutting plane lines?      a    b    c    d    e    f    g    h    i    j
6. What is the definition of visible lines?      a    b    c    d    e    f    g    h    i    j
7. What is the definition of symmetry lines?      a    b    c    d    e    f    g    h    i    j
8. What is the definition of break lines?      a    b    c    d    e    f    g    h    i    j
9. What is the definition of dimension and extension lines?      a    b    c    d    e    f    g    h    i    j
10. What is the definition of phantom lines?      a    b    c    d    e    f    g    h    i    j

**For questions 1-10 select from the following options:**

- a. Lines used in section drawings to show the location of cutting planes.
- b. Lines used as an axis of symmetry for a particular view.
- c. Lines that represent features that can be seen in the current view.
- d. Lines used to represent movable feature in its different positions.
- e. Lines used in section views to represent surfaces of an object cut by a cutting plane.
- f. Line where the vanishing point(s) is located.
- g. Line in the drawing used to identify where an object is broken to save drawing space and reveal interior features.
- h. Lines used to indicate the size of features on a drawing.
- i. Lines that represent features that cannot be seen in the current view.
- j. Lines used to represent symmetry, paths of motion, and to mark the centers of circles and the axes of symmetrical parts.

11. Pictorial sketches

- a. are used to communicate technical information in a form that is easy to visualize.
- b. should not be used when communicating with non-technical individuals.
- c. are given to a machinist to manufacture a part.
- d. take a great deal of time to complete.
- e. None of the above answers are correct.

12. Which view in Figure 1 is "Oblique"?

- A B C D E (not shown)

13. Which view in Figure 1 is "Multiview"?

- A B C D E (not shown)

14. Which view in Figure 1 is "Perspective"?

- A B C D E (not shown)

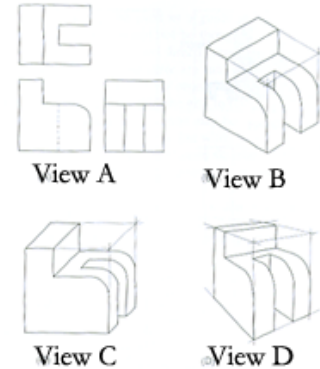


Figure 1. Different drawing projections

15. Conventions

- a. are commonly accepted practices and methods used for technical drawings.
- b. define geometry and projection techniques.
- c. are sets of rules that govern how parts are made and technical drawings represented.
- d. is the ability to mentally control visual information.
- e. None of the above answers are correct.

16. The alphabet of lines

- a. is a set of standard linetypes established by the drafter's union.
- b. is a set of standard linetypes established by the American Society of Mechanical Engineers.
- c. are conventions for lettering practices.
- d. has 26 different linetypes included like the alphabet.
- e. None of the above are correct statements for the alphabet of lines.

17. A perspective drawing where the ground line is at the same level as the horizon line creates a

- a. bird's eye view.
- b. human's eye view.
- c. ground's eye view.
- d. worm's eye view.
- e. None of the above are correct view names.

18. Which view in Figure 2 is the "Left View"?

- A B C D E F

19. Which view in Figure 2 is the "Right View"?

- A B C D E F

20. Which view in Figure 2 is the "Top View"?

- A B C D E F

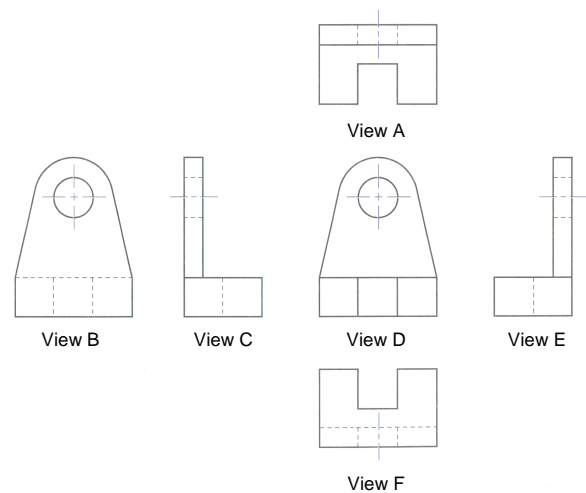


Figure 2. ANSI Multiview Drawing Arrangement