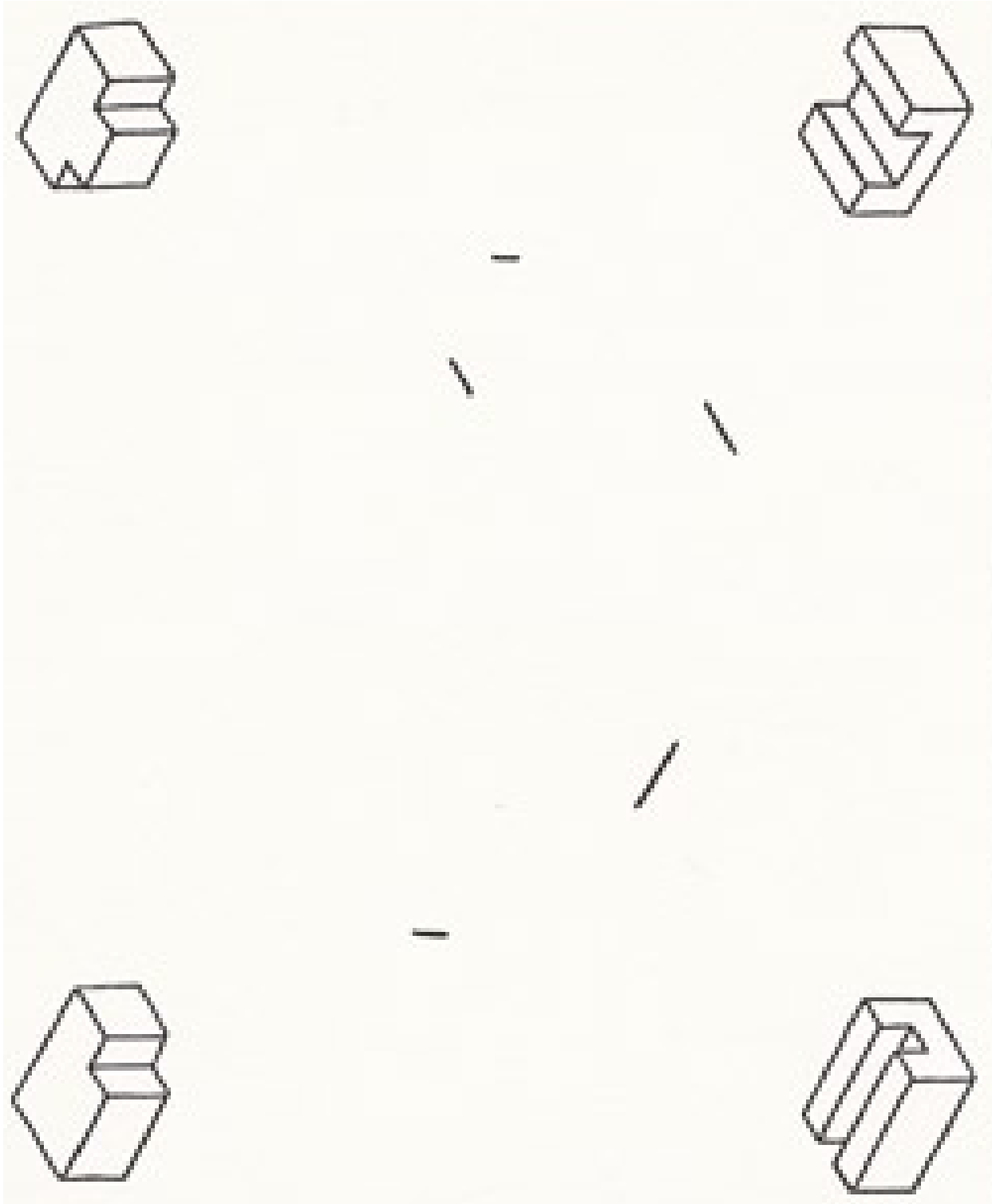


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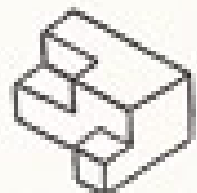
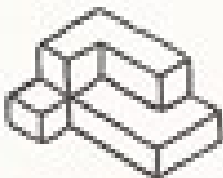
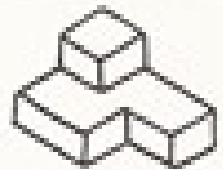
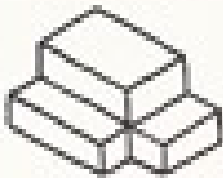
1. Sketch one of the isometric shapes below: (18 Points)



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2. Sketch one of the complex isometric shapes below: (18 Points)



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3. An Isometric View is one where: (circle a,b,c or d) (6 Points)
  - a) the “x” and “z” axes lines are 45 degrees from the horizontal view.
  - b) the “x” and “y” axes lines are 30 degrees from the horizontal view.
  - c) the “y” and “z” axes lines are 45 degrees from the horizontal view.
  - d) the “x” and “y” axes lines are 60 degrees from the horizontal view.
  
4. Sketch one of the slanted line isometric shapes below: (18 Points)
  
5. Define: Orthographic View *An orthographic view is a 2-D view that is perpendicular to the viewed plane.*
  
6. Define: Orthographic Projection – *An orthographic projection is an orthographic view derived from another orthographic view.*
  
7. Tangent - *a line, curve, or surface that touches another curve or surface but does not cross nor intersect it.*
  
8. Perpendicular - *at right angles to a line or plane*
  
9. Ray – *a line that starts at one point and continues to infinity.*
  
10. NEVER, EVER, EVER SAVE TO **MY DOCUMENTS!!** ALWAYS, ALWAYS, ALWAYS SAVE TO **YOUR H DRIVE (ID).**
  
11. What is a Windows Crossing? *A Windows Crossing is a selection tool that will select any object that is within or is crossed by the selection box.*
  
12. What is a Windows Selection? *A Windows Selection is a selection tool that will select any object that is entirely within a selection box.*

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13. List the procedure for changing text, arrow and line sizes in AutoCAD.

- a) Go to the **Annotate Tab** > **Double Click** on the Arrow on the bottom right of the **Dimension** group.
- b) This will bring up the **Dimension Style Manager**.
- c) Click on **Modify** > **Text**. **Change the text size**
- d) Next, go to **Primary Units** > **Precision**. **Change the precision**
- e) Next, **Symbols and Arrows** > **Change the Arrow size** .
- f) Click **OK** > **Close**

14. To create a layer in AutoCAD, **Go To Home** > **Layers** > **Layer properties**.

15. Describe the procedure for mirroring an object in AutoCAD.

- a) Select the **Mirror** tool.
- b) Select the object that you would like to mirror -> Enter.
- c) Select the **mirror line**.
- d) Answer “Y” to keep the original object, or “N” to delete the original object

16. Describe the process for copying an object in AutoCAD.

- a) Select the **Copy** tool.
- b) Select the object that you would like to copy -> Enter.
- c) Select the **Base point**.
- d) Left Click to place your copies.

17. Describe the process for moving an object in AutoCAD.

- a) Select the **Move** tool.
- b) Select the object that you would like to move -> Enter.
- c) Select the **Base point**.
- d) Left Click to place your object.

18. Describe the process for rotating an object in AutoCAD.

- a) Select the **Rotate** tool.
- b) Select the object that you would like to rotate -> Enter.
- c) Select the **Base point**.
- d) **Left Click and Drag** to change the rotation of your object.

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## Final Exam – Engineering Drawing

19. Describe the process for creating a rectangular array in AutoCAD.

- a) Select the **Array** tool. The **Array box** pops up.
- b) Select the **“Rectangular Array”** button.
- c) Select the **“select”** button.
- d) Select the object that you would like to array > Return
- e) Input the **Row and Column** offsets.
- f) Select Preview.
- g) Left Click to edit the array, Right Click to accept the array. place your object.

20. Describe the process for creating a fillet in AutoCAD.

- a) Select **the Fillet** tool.
- b) Hit **“R”** > Enter to set the radius.
- c) Enter the **radius** > Enter.
- d) Select the **first** object that you would like to fillet, then the **second** object.