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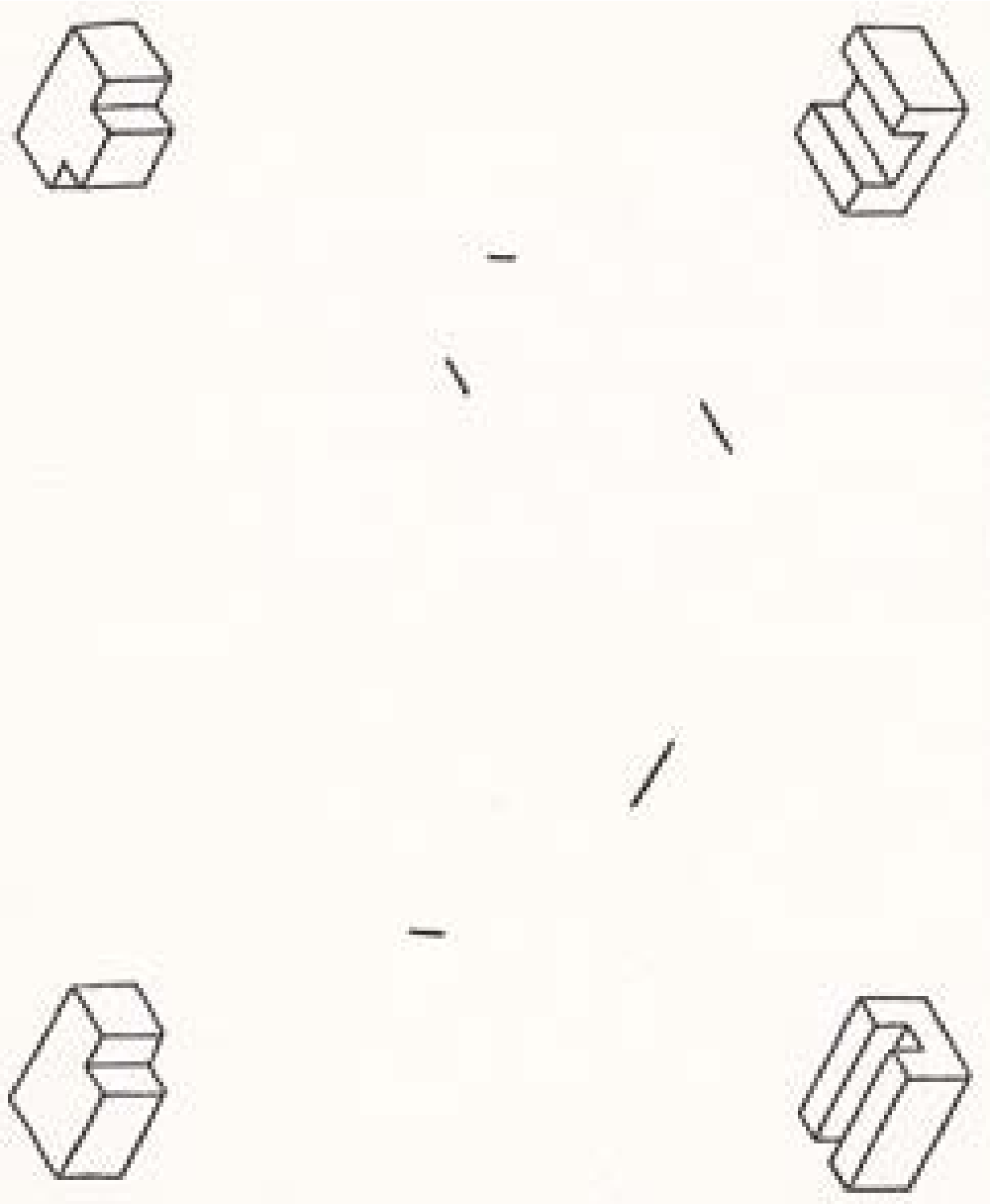
Final Exam – Engineering Drawing

1. Sketch one of the isometric shapes below:



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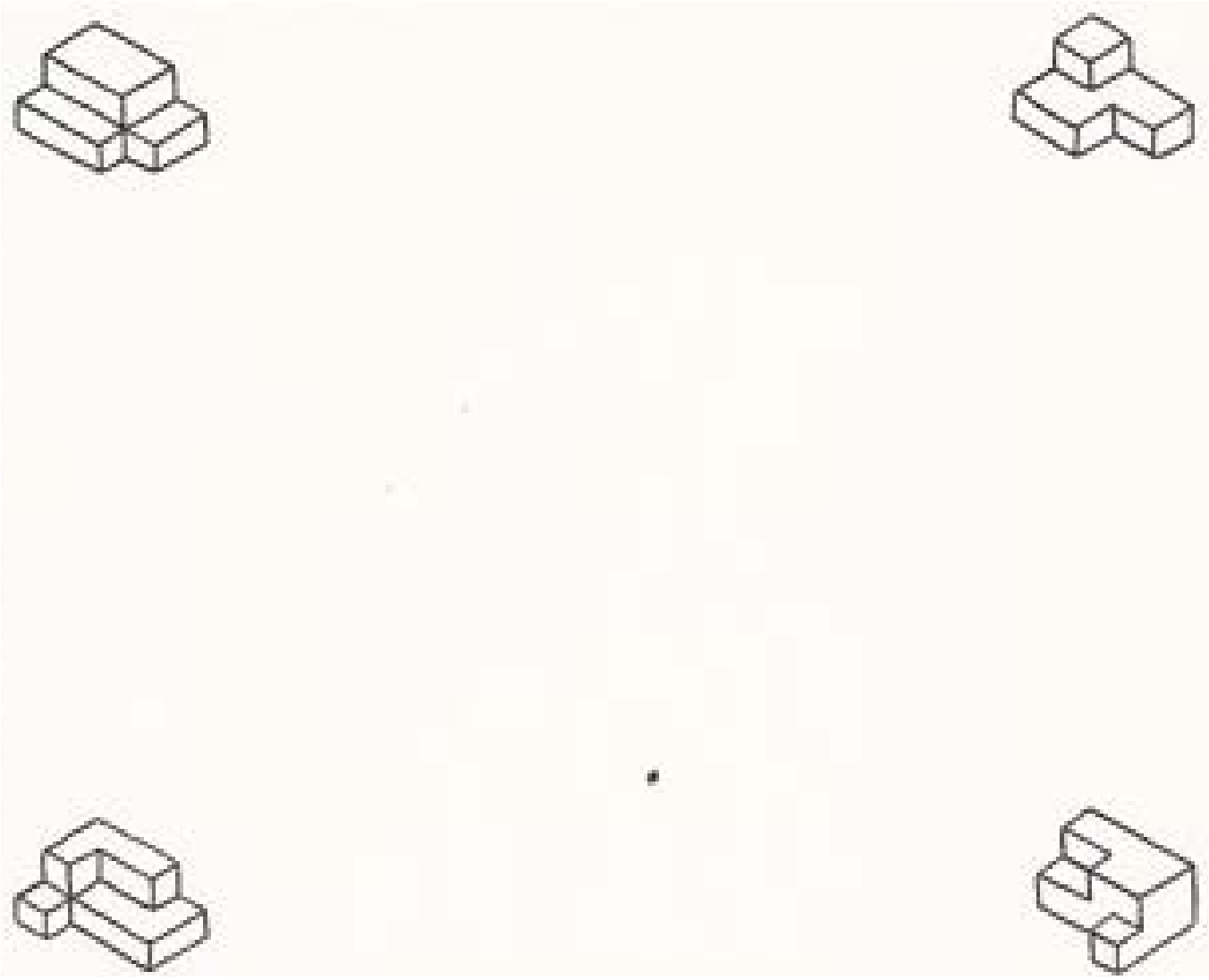
2. Sketch one of the complex isometric shapes below:



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3. An Isometric View is one where: (circle a,b,c or d)

    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. Define: Orthographic View *An orthographic view is a 2-D view that is perpendicular to the viewed plane.*

5. Define: Orthographic Projection – *An orthographic projection is an orthographic view derived from another orthographic view.*

6. Tangent - *a line, curve, or surface that touches another curve or surface but does not cross nor intersect it.*

7. Perpendicular - *at right angles to a line or plane*

8. Ray – *a line that starts at one point and continues to infinity.*

9. NEVER, EVER, EVER SAVE TO ***MY DOCUMENTS!!*** ALWAYS, ALWAYS, ALWAYS SAVE TO ***YOUR H DRIVE (ID).***

10. 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.***

11. What is a Windows Selection? ***A Windows Selection is a selection tool that will select any object that is entirely within a selection box.***

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

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*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***

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

14. 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 dele the original object

15. 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.

16. 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.

17. 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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18. 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.*

19. 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.*