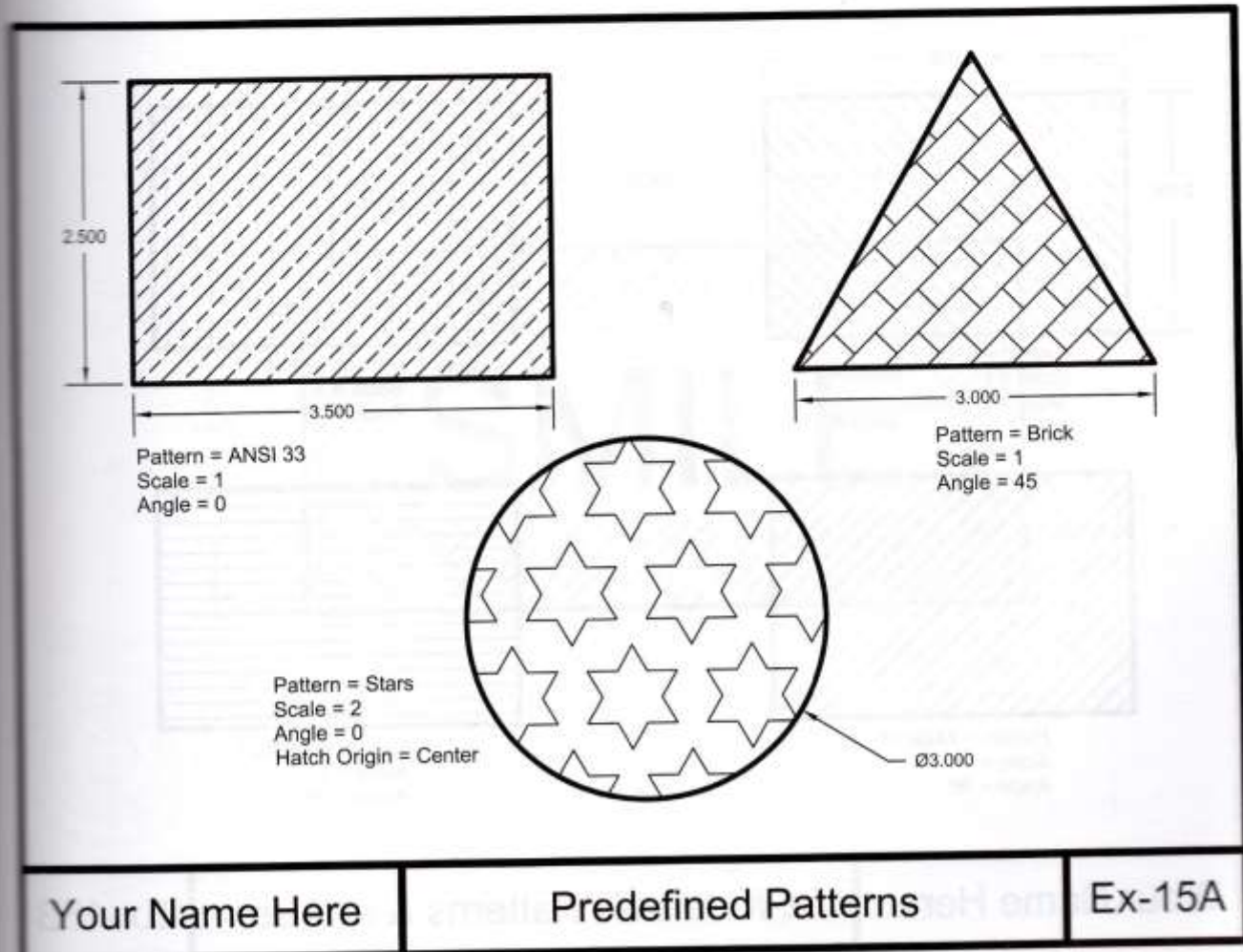


# EXERCISE 15A

## INSTRUCTIONS:

1. Start a **New** file using **Border A-2015.dwt**
2. Draw the Rectangle, Circle and Polygon as shown.
3. Use Layers = Object line and Hatch.
4. Hatch the boundaries shown using the Patterns shown.
5. Edit the Title and Ex-XX by double clicking on the text. Do not erase and replace.
6. Do not dimension
7. Save as **EX15A**
8. Plot using Page Setup **Class Model A**

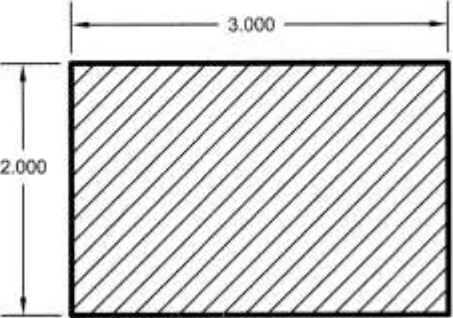
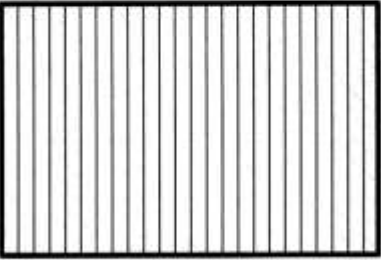
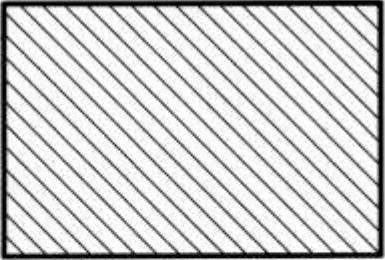
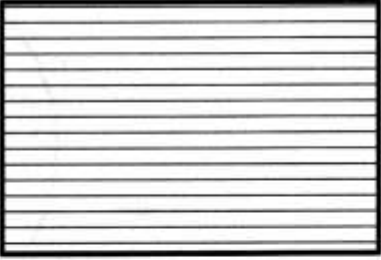


# EXERCISE 15B

## INSTRUCTIONS:

1. Start a **New** file using **Border A-2015.dwt**
2. Draw the 4 Rectangle as shown.
3. Use Layers = Object line and Hatch.
4. Hatch the boundaries shown using the Patterns shown.
 

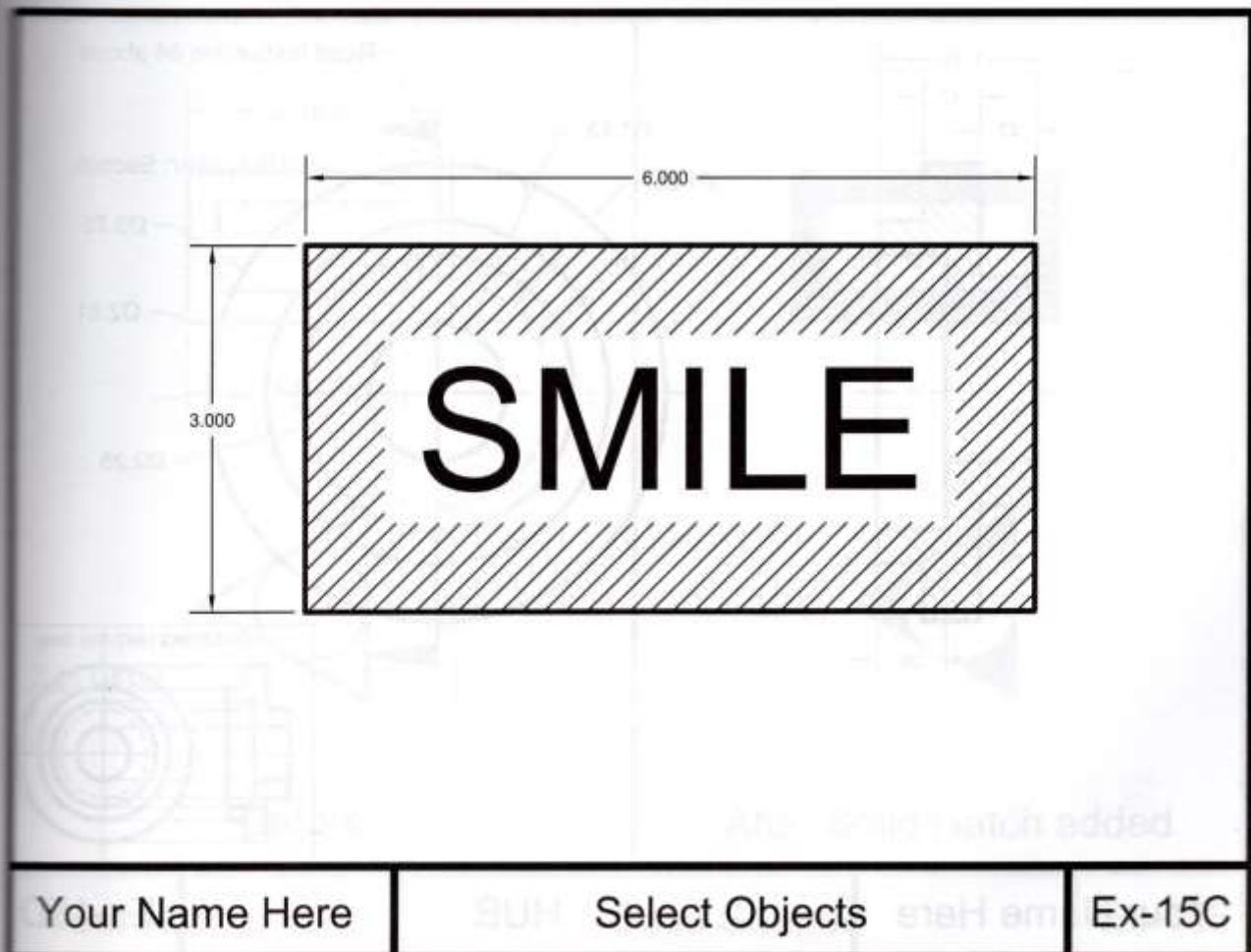
*Notice the angles rotate the hatch pattern from it's original design.  
For example: Angle 45 appears to be rotation 90 because the original design was drawn at a 45 degree.....think about it.*
5. Edit the Title and Ex-XX by double clicking on the text. Do not erase and replace.
6. Do not dimension
7. Save as **EX15B**
8. Plot using Page Setup **Class Model A**

 <p style="text-align: center;">Pattern = ANSI 31 Scale = 1 Angle = 0 (Original design)</p>	 <p style="text-align: center;">Pattern = ANSI 31 Scale = 1 Angle = 45</p>	
 <p style="text-align: center;">Pattern = ANSI 31 Scale = 1 Angle = 90</p>	 <p style="text-align: center;">Pattern = ANSI 31 Scale = 1 Angle = 135</p>	
<b>Your Name Here</b>	<b>Predefined Patterns &amp; angles</b>	<b>Ex-15B</b>

# EXERCISE 15C

## INSTRUCTIONS:

1. Start a **New** file using **Border A-2015.dwt**
2. Draw the Rectangle as shown using layer Object line.
3. Place the 1" high text in the Middle of the rectangle. Use layer Text.
4. Use Hatch Pattern ANSI31. Use layer Hatch.
5. Select the Boundary using "Select Objects" this time.
6. Edit the Title and Ex-XX by double clicking on the text. Do not erase and replace.
7. Do not dimension
8. Save as **EX15C**
9. Plot using Page Setup **Class Model A**



# EXERCISE 15D

## INSTRUCTIONS:

1. Start a **New** file using **Border A-2015.dwt**
2. Draw the Hub as shown using layer Object line.
3. Use Hatch pattern ANSI 31 Scale = 1 and Angle = 0. Use Layer Hatch
4. Draw the section arrowhead, approximately as shown. Fill with "Solid" hatch.
5. Edit the Title and Ex-XX by double clicking on the text. Do not erase and replace.
6. Do not dimension
7. Save as **EX15D**
8. Plot using Page Setup **Class Model A**

Read Instruction #4 above

Use Layer: Section

Ø1.13

Ø1.88

Ø3.75

Ø2.81

Ø2.25

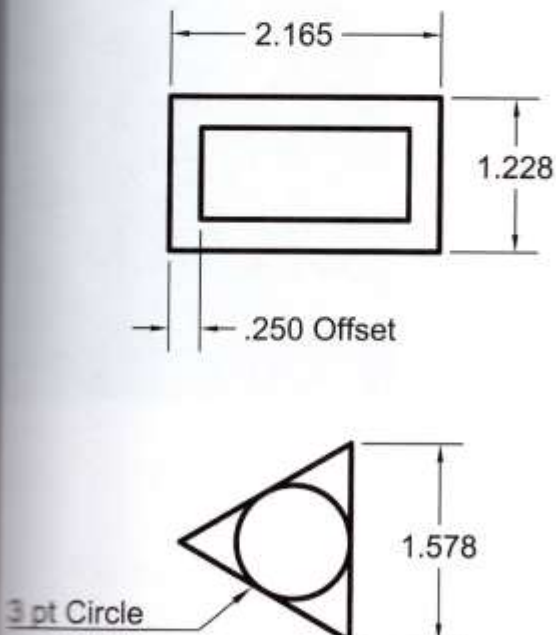
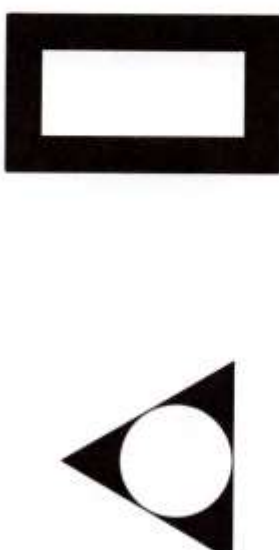
DRAFTING HINT-Ref. Only

Your Name Here	HUB	Ex-15D
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# EXERCISE 15E

## INSTRUCTIONS:

1. Start a **New** file using **Border A-2015.dwt**
2. Draw the objects shown as Before, using layer Object line.
3. Add Solid Hatch. Use Layer Hatch
4. Edit the Title and Ex-XX by double clicking on the text. Do not erase and replace.
5. Do not dimension
6. Save as **EX15E**
7. Plot using Page Setup **Class Model A**

 <p>2.165</p> <p>1.228</p> <p>.250 Offset</p> <p>3 pt Circle</p> <p>1.578</p> <p>Before</p>	 <p>After Solid Hatch added</p>	
Your Name Here	Solid Shapes	Ex-15E