

Online Extended Print Reading Problems  
Solutions Manual

Print Reading for Engineering & Manufacturing Technology  
Third Edition

David A. Madsen  
David P. Madsen

## Chapter 1

### Extended Print Reading Problems - Solutions

#### Extended Problem 1.1

Given the title block and revision block shown on this page, answer the following questions using short, complete statements.

1. What is the company name? **Hyster Company**
2. Who was the drafter? **RDB**
3. What is the scale of this drawing? **1:1 or full scale**
4. What is the date of this drawing? **88-01-02 means January 20, 1988**
5. Give the part name. **XMSM BRKT WLDMT-RH**
6. What is the part number? **388939**
7. What is the model number? **S135-155 XL**
8. Give general specifications associated with this drawing. **HCE-704 Arc weld quality**
9. Identify at least two ways you can tell that the dimensions in this drawing are in millimeters. **the word metric in a box next to the title block and unless otherwise specified, dimensions are in mm**
10. What is the tolerance for unspecified one-place decimals?  **$\pm 1.5$**
11. What is the tolerance for unspecified two-place decimals?  **$\pm 0.25$**
12. What is the tolerance for unspecified angular dimensions?  **$\pm 2^\circ$**
13. What is the tolerance for unspecified whole dimensions?  **$\pm 2 \text{ mm}$**
14. Give the current drawing revision. **2**
15. What is the ECN number of the current revision? **93080**
16. Describe the last change. **add chart dimension "A"**

## Extended Problem 1.2

Given the Extended Problem 1.2 print, answer the following questions using short, complete statements.

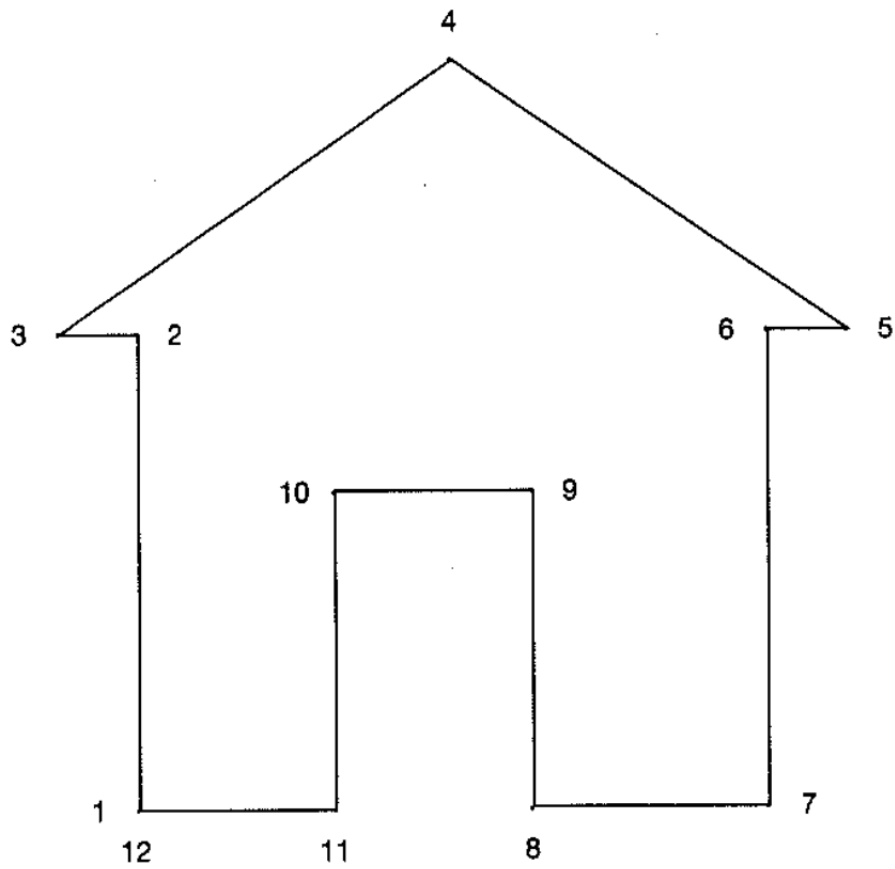
1. Give the drawing title. **STUD**
2. Identify the drawing number. **MS2344**
3. How many time has this drawing been revised? **Twice, two times, or B**
4. How many sheets are there with this drawing? **1**
5. What is the drawing scale? **2:1**
6. Identify the sheet size. **B**
7. Give the material used to make the part. **SAE 4320**
8. Identify the view projection used on this drawing. **THIRDANGLE**  
**PROJECTION**
9. Specify the finish used for this part. **ALL OVER**
10. Give the initials of the person who approved this drawing. **HJE**
11. Give the description of the first revision. **ECN 1510**
12. Give the description of the current revision. **ECN 1511**

## Chapter 2

### Extended Problems - Solutions

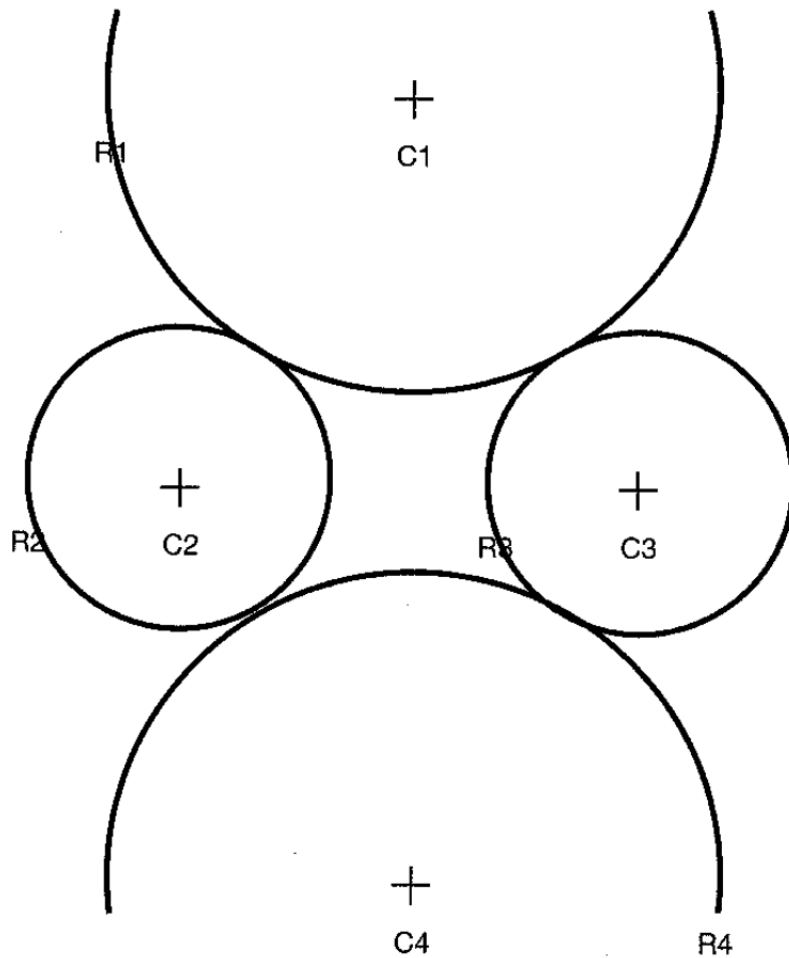
#### Extended Problem 2.1

Sketch straight lines between the numbered points shown.



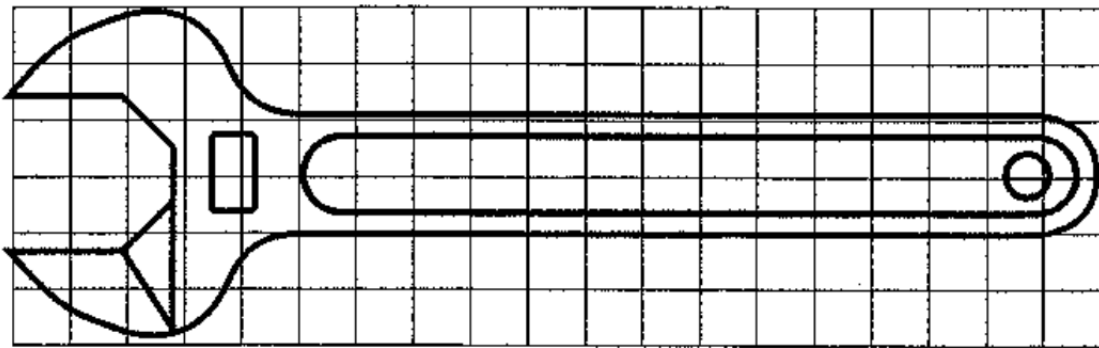
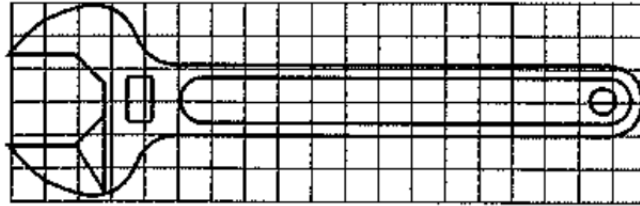
## Extended Problem 2.2

Use the hand-compass method to sketch circles, given the center points and the radius of each circle shown. For example, *C1* represents the center, and *R1* is a point establishing the radius for circle 1, *C2* and *R2* for circle 2.



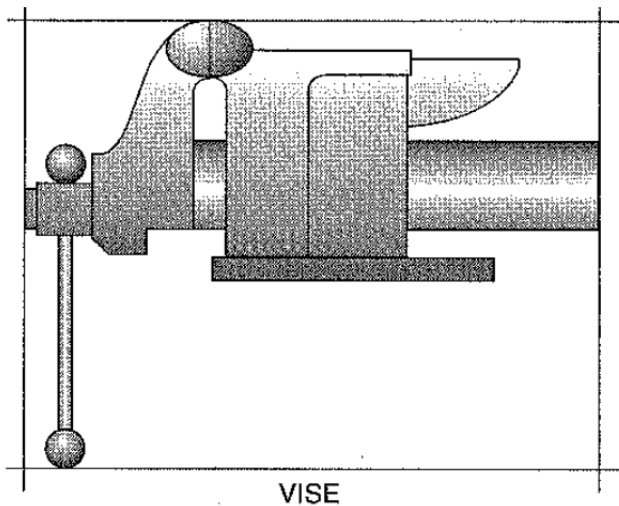
### Extended Problem 2.3

Given the print of a wrench, sketch the wrench larger in the rectangular grid provided. Use the grid as a guide as described in Chapter 2 of your textbook.



### Extended Problem 2.4

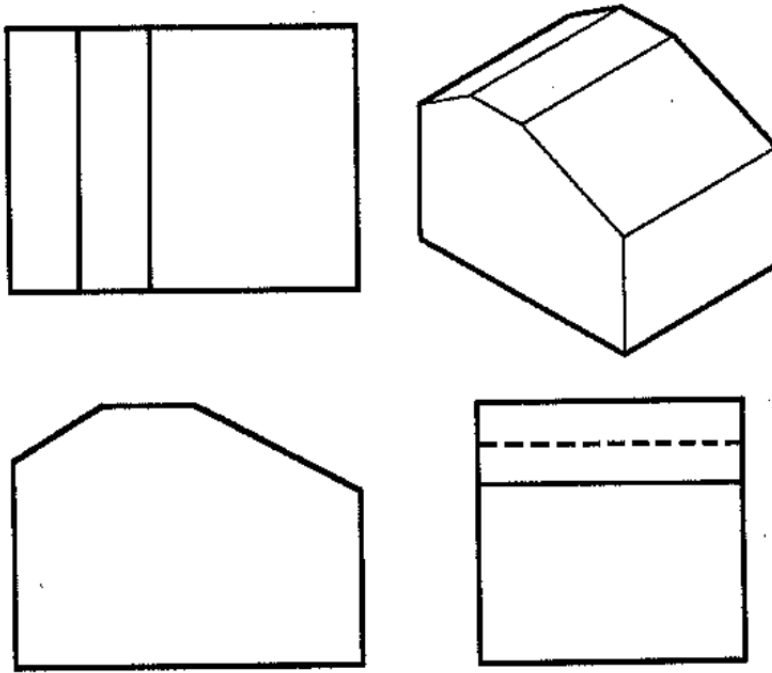
On a separate piece of paper, make a sketch of the vise print shown. Use a frame of reference to make your sketch twice as big as the given sketch.



### Extended Problem 2.5

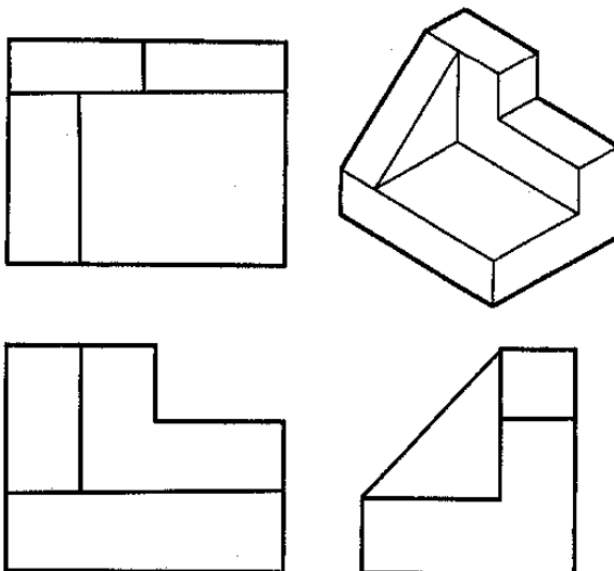
Angle gage. Using the pictorial print as a guide, sketch the missing lines in the multiviews.

Solution will vary



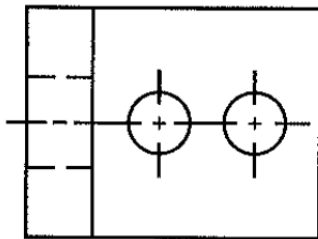
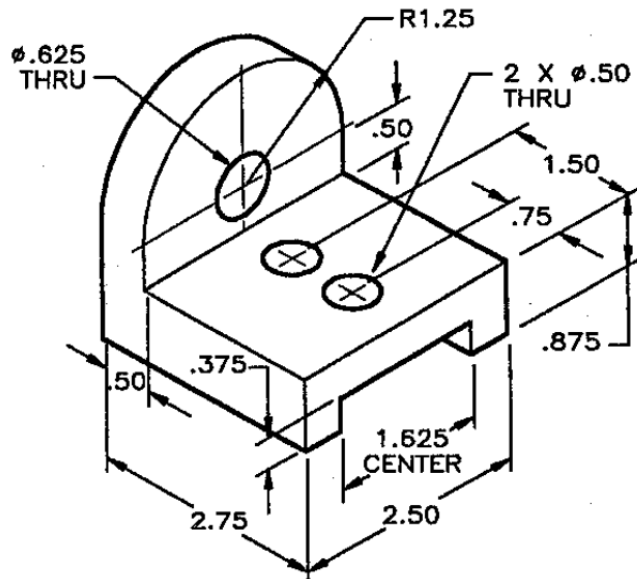
### Extended Problem 2.6

Corner block. Using the pictorial print as a guide, sketch the missing lines in the multiviews.

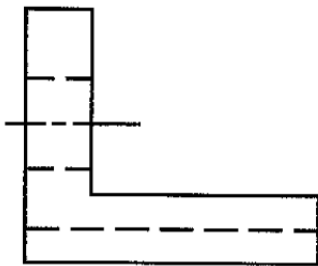


## Extended Problem 2.7

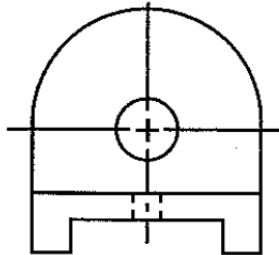
Given the pictorial print of the guide base, sketch front, top, and right-side views. Use the measurement line method to approximate dimensions when preparing your sketch in the space provided or on a separate sheet of paper.



TOP



FRONT



RIGHT SIDE