STUDY SET 09

DIMENSIONING & TOLERANCING PRACTICES

# PROBLEMS FOR LABORATORY WORK

## 9.1 Problem 9.1 (Figure 9.78 (2))

Draw the multiviews using CAD, and then fully dimension the objects.



## 9.2 Problem 9.1 (Figure 9.78 (4))

Draw the multiviews using CAD, and then fully dimension the objects.



## 9.3 Problem 9.1 (Figure 9.79 (1))

Draw the multiviews using CAD, and then fully dimension the objects.



## 9.4 Problem 9.2 (Figure 9.80) – Gusseted Angle Bracket

Sketch, or draw with CAD, a multiview drawing, then add dimensions.



## 9.5 Problem 9.2 (Figure 9.83) – Foot Mounting

Sketch, or draw with CAD, a multiview drawing, then add dimensions.



## 9.6 Problem 9.3 (Figure 9.92) – Shaft and Hole

Using tolerancing tables in appendices, calculate the limit dimensions between the shaft and hole . For the given classes of fit.



# SELECTEDPROBLEMS

## 9.1 Problem 9.2 (Figure 9.81) – Angle Clamp

Sketch, or draw with CAD, a multiview drawing, then add dimensions. Omit threads.



## 9.2 Problem 9.2 (Figure 9.82) – Clevis Eye

Sketch, or draw with CAD, a multiview drawing, then add dimensions. Omit threads.



## 9.3 Problem 9.2 (Figure 9.84) – Flange Mounting

Sketch, or draw with CAD, a multiview drawing, then add dimensions.



## 9.4 Problem 9.2 (Figure 9.88) – Standard Bracket

Sketch, or draw with CAD, a multiview drawing, then add dimensions.



## 9.5 Problem 9.2 (Figure 9.90) – Gang Mill Fixture Base

Sketch, or draw with CAD, a multiview drawing, then add dimensions.

