UNIVERSITY OF CALIFORNIA, BERKELEY

84

SCORE 78

Solution

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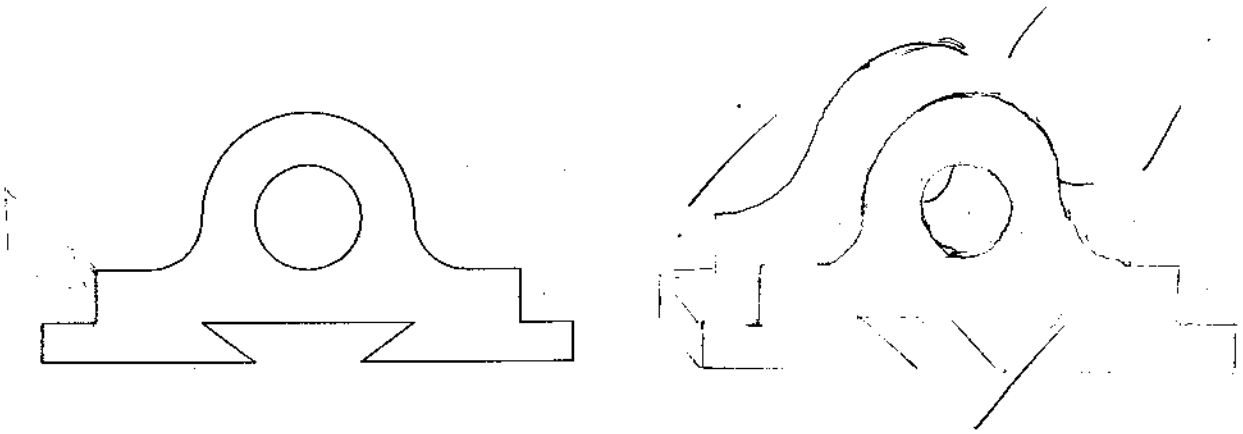
Section 2-R01
101

E28 Midterm Exam 1 Spring 199

1 - (25%) The front and top views of an object are shown below. Draw an oblique view (freehand sketch). You do not need to scale the drawing, but the sketch should be somewhat proportional.

Top View



Front View

4 - (10%) A ½ inch shaft is to have a class FN1 fit in a ½ inch hole. Dimension both parts using the **plus-minus tolerancing** method. What is the interference for the tightest fit?

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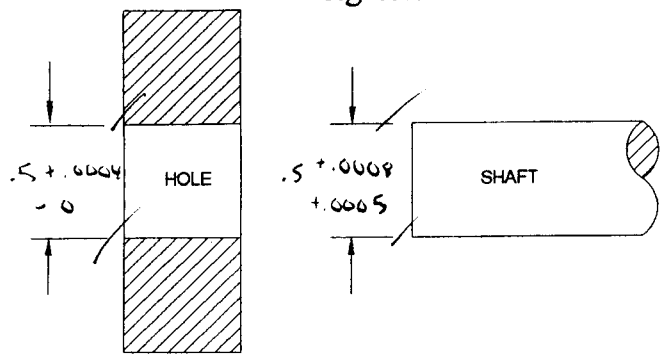
Tightest Fit = -.0008 (interference always neg.)



5 - (15%) Two different parts have been dimensioned as shown below.

a) Identify, by circling, the poor dimensioning practices and describe the proper way to do it.

b) Indicate the dimensions that are missing by marking it on the drawing.

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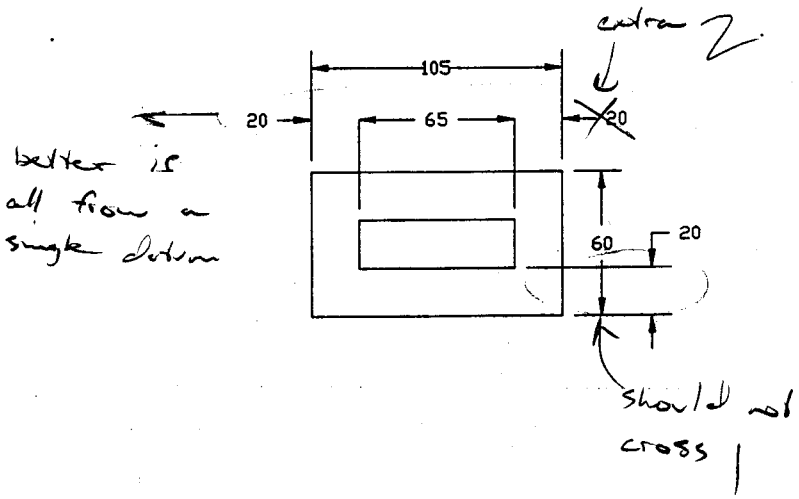
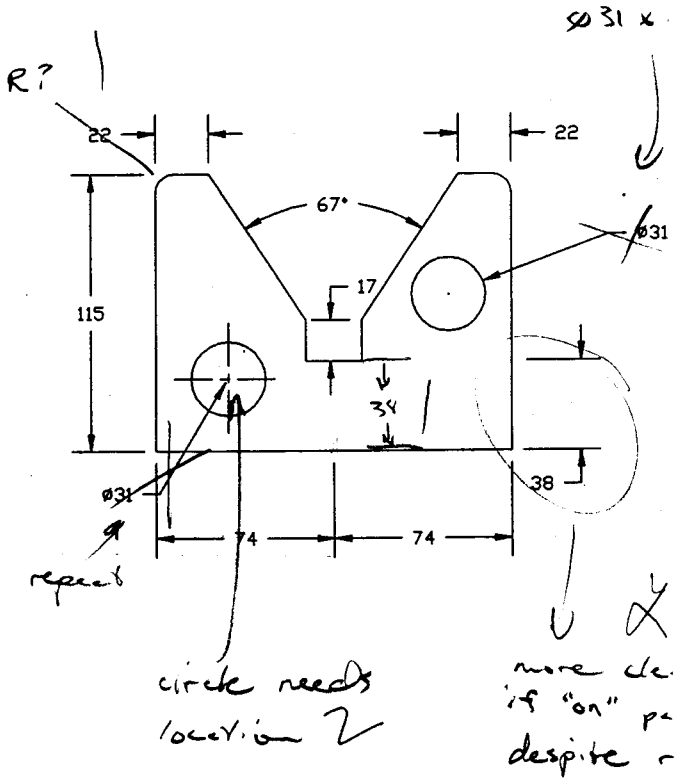
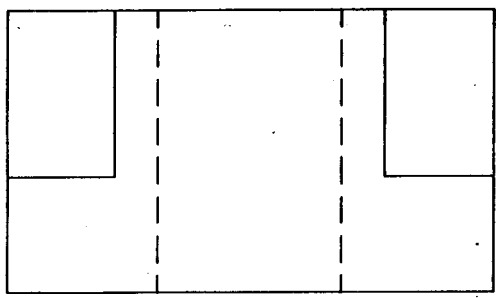


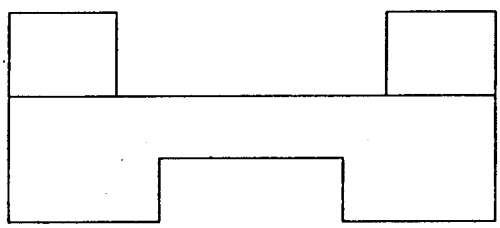


ky

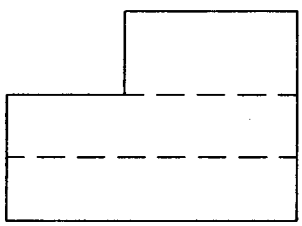
2 - (25%) The front, top and right side views of an object are shown in the figure below. Draw a perspective view of the object using the one vanishing point provided in the figure. Your freehand sketch should be reasonably proportional. Erase all construction lines.



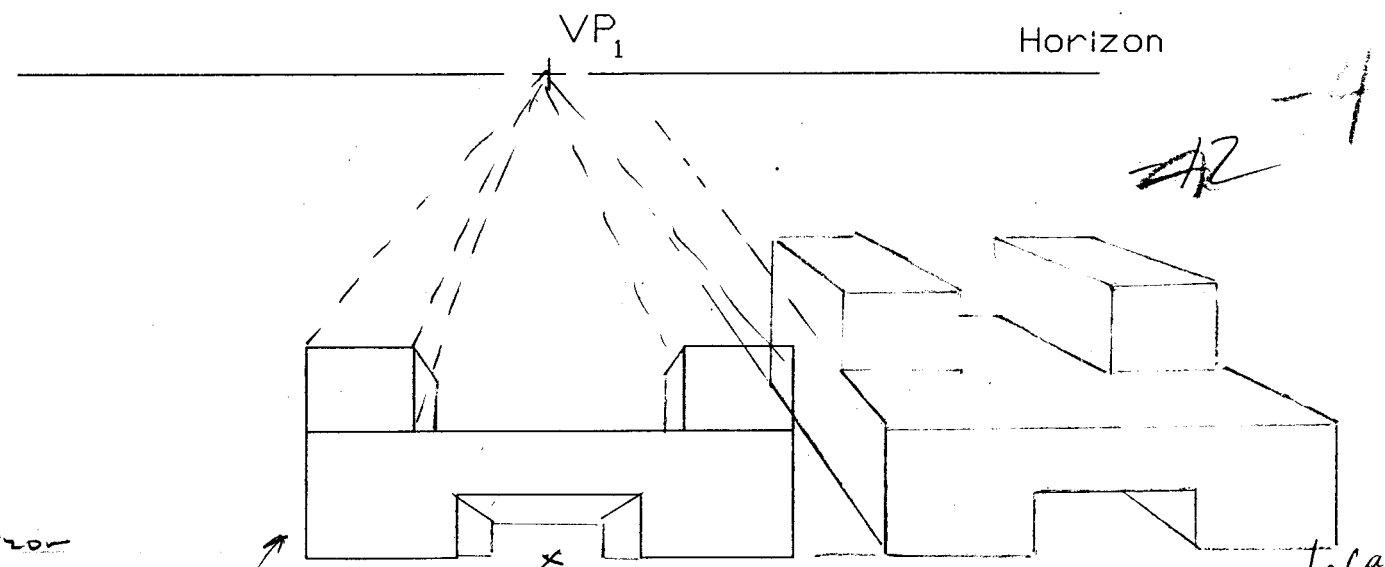
Top View



Front View



Right Side View



3 - (25%) Front and left side views of an object are shown below. Complete the full section view of the right side using the cutting plane indicated on the front view. Hatch the appropriate areas by hand.

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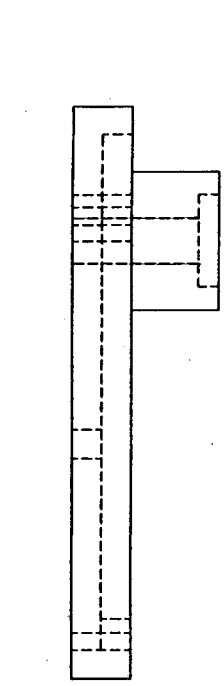
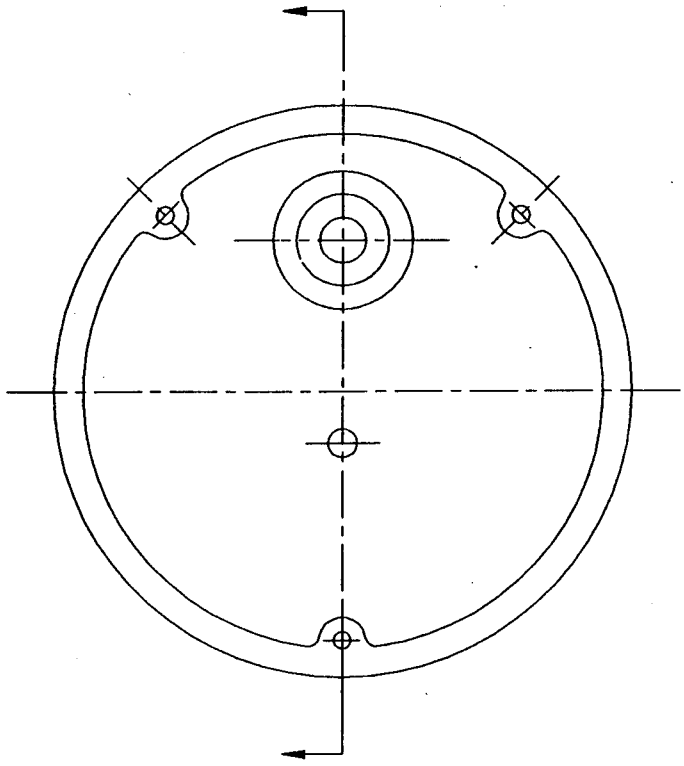
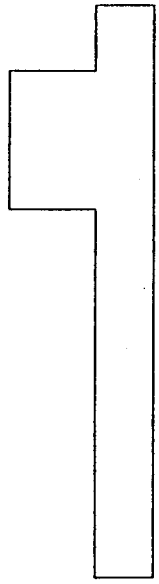


Left Side View



Front View



Right Side View Section