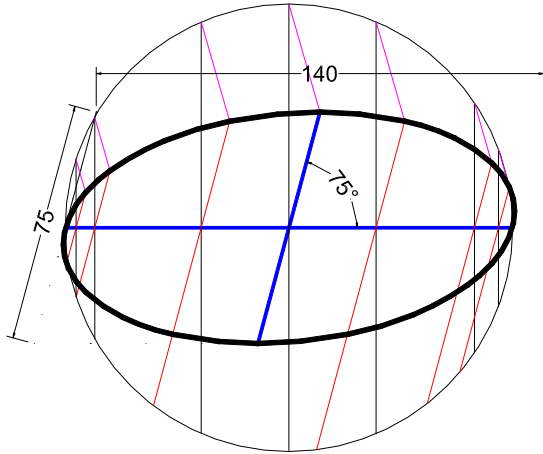


TA 101: 2015-16 (II)
Mid Semester Examination Solution

Q1. Drawing ellipse using conjugate diameter method (10 Marks)



Note: Set B uses different dimensions of ellipse, method remains same

Grading Policy:

[1] Wrong Method (-6 marks), grading has been done out of 4 marks

[2] Deduction of 1, 2, 3 or more marks depending on

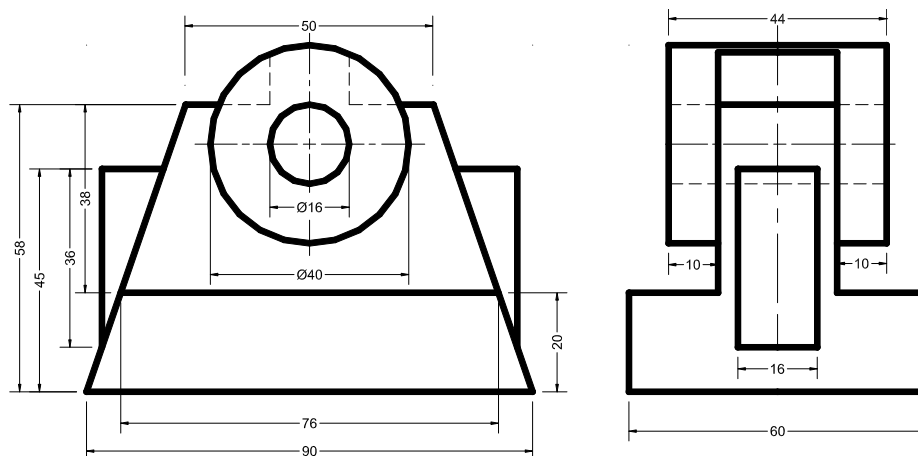
(a) Neatness

(b) If the object lines and the construction lines are not distinguishable

(c) Only a few number of points taken to draw the ellipse, resulting improper ellipse

(d) If the object line is not a single line (or a smooth curve) etc.

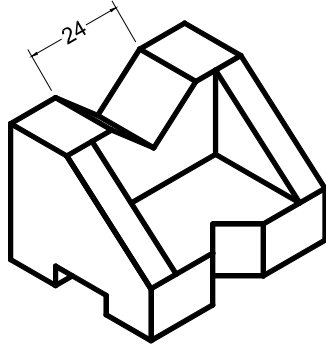
Q2. Two Orthographic Views with dimensions (15 Marks)



Note: Front and Profile views are altered in set B

Grading Policy:

- [1] Correctly making 2 views = 10 marks; and optimal dimensioning = 5 marks.
[2] Deduction of 1, 2, 3 or more marks depending on the number of object/hidden lines missing from the views. Similarly, 1, 2, or more marks are deducted for number of missing dimensions and/or redundant dimensions.

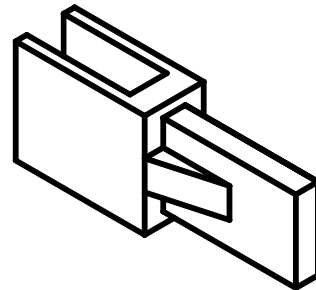
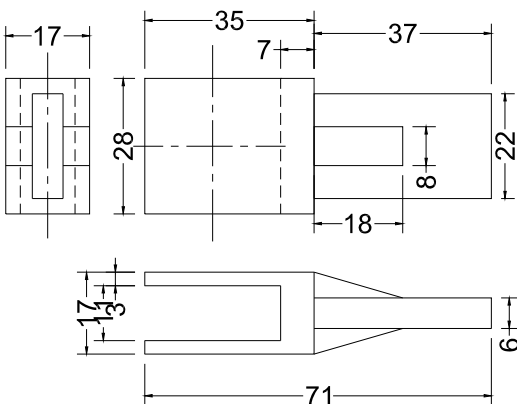
Q3. Isometric Projection (15 Marks)

Isometric projection

Note: Object remains same in set A and set B

Grading Policy:

- (1) If isometric drawing is drawn instead of isometric projection, 5 marks are deducted.
(2) If the wedges are not shown, 2 marks are deducted (1 mark for each wedge).
(3) If slot is not shown, 2 marks are deducted.
(4) Correct representation of top triangular cut out along with the rectangle carries 2.5 marks.
(5) Correct representation of side triangular cut out along with the rectangle carries 2.5 marks.
(6) Correct representation of object lines carries 1 mark.
(7) If the oblique (cavalier or cabinet) view is presented, 7.5 marks are deducted and the grading is done out of 7.5 marks.

Q4. Missing lines and free-hand pictorial view (10 Marks)

Note: Views are only positioned differently (First or Third angle scheme) in set A and B, object remains the same

Grading Policy:

[1] 5 marks for showing the missing lines and 5 marks for the free hand sketch (Total 10)

[2] Further, if they have partially completed the missing lines, then either 2 or 3 marks are deducted (out of 5). Deduction policy was made according to the lines they have missed or erroneously made.

[3] In free hand sketch, marks are deducted for drawing hidden lines in views, object lines which cannot be seen etc. 1 or 2 marks are deducted according to the severity of the mistake.

[4] Marks are deducted for incorrect pictorial sketch, or if the pictorial sketch do not match with their completed orthographic solutions.