

ALPHA COLLEGE OF ENGINEERING & TECHNOLOGY

FAQ OF BASIC ENGINEERING DRAWING

PROBLEM :-1 Draw layout of sheet including Title Block.

PROBLEM :-2 Draw Types of lines used in general engineering drawing in table form.

PROBLEM :-3 With the help of figure differentiate between

a) Aligned system of dimensioning & b) Unidirectional system of dimensioning.

PROBLEM:- 4 Draw Regular Polygons like Square, Pentagon, Hexagon, Heptagon and Octagon having 40 mm side by General method/ Universal Method.

PROBLEM:-5 Construct a Pentagon Having a side of 35mm by three circle method.

PROBLEM:-6 Inscribe a regular Heptagon in a circle of 90mm diameter & find the side length it.

PROBLEM:-7 Divide 80 mm long line in to seven equal parts.

PROBLEM:-8 Construct an ellipse by concentric circle method if the major axis is 120mm & minor axis is 80mm.

PROBLEM:-9 Construct an ellipse by arc of circle method if the major axis is 120mm & minor axis is 80mm.

PROBLEM:-10 Construct an ellipse by oblong method if the major axis is 120mm & minor axis is 80mm.

PROBLEM:-11 Draw a curve having eccentricity 8:5, the vertex V of which is at a distance of 25mm from the directrix AB. Find at least 8 points to draw the curve. Find the distance of the focus F from the directrix. Name the curve.

PROBLEM:-12 Construct an Archimedean spiral of one convolutions given the shortest and greatest length of 31 mm and 55 mm respectively. Draw the tangent and normal at any point on the curve.

PROBLEM:-13 Construct Cycloid for 50 mm diameter circle.

PROBLEM:-14 Draw an involute of a circle 40mm diameter.

PROBLEM:-15 Draw the projection of given points on a common reference line.

A, 35 mm above H.P. and 45 mm in front of V.P.

B, 25 mm above H.P. and 40 mm behind V.P.

C, 20 mm below H.P. and 40 mm behind V.P.

D, 35 mm below H.P. and 25 mm in front of V.P.

E, 45 mm above H.P. and in V.P.

F, 30 mm below H.P. and in V.P.

G, on H.P. and 35 mm in front of V.P.

H, on H.P. and 25 mm behind of V.P.

I, in H.P. and 10mm in front of V.P.

PROBLEM:-16 A line AB, 80mm long is inclined at 45° to the H.P. to the 30° to the V.P. its End A is 10 mm above H.P. and 20 mm in front of V.P. draw its projections.

PROBLEM:-17 A Line AB 90 mm long has its end 'A' in H.P. and 15 mm behind V.P. the end B is 45 mm below H.P. AND 60 mm behind V.P. find inclination of line AB With H.P. & V.P.

PROBLEM:-18 A regular hexagon of 50mm side has a corner in the H.P. Its surfaces is inclined at 60° to the H.P. and the top view of diagonal through the corner , which is in the H.P. is at 45° with V.P. Draw the Projections.

PROBLEM:-19 A regular pentagon of 30 mm side is resting on HP on one of its side which is inclined at 30° with VP and the plane is inclined at 45° with HP. Draw the projection of plane.

PROBLEM:-20 A circle of 60mm diameter has its one diameter AB inclined at 60° to the H.P. and the other CD, Which is perpendicular to AB, is at 45° to the V.P. draw its projections.