

# AN ROINN OIDEACHAIS.

## AN BRAINSE GAIRM-OIDEACHAIS.

### CERTIFICATE EXAMINATIONS for DAY VOCATIONAL COURSES, 1949.

#### **MECHANICAL DRAWING.**

*Tuesday, 28th June, 10-1 p.m.*

#### INSTRUCTIONS.

(a) *Not more than four* questions may be attempted, two of these to be selected from Section A and two from Section B.

(b) Accuracy and neatness are essential. A maximum of 10 marks will be awarded for neat arrangement.

(c) The number of the question must be distinctly marked by the side of each answer.

(d) Work on one side of the paper only.

#### SECTION 1.

1. Fig. 1 shows a solid block drawn in isometric. Draw full size from this view :

(a) *A front elevation.*

(b) *An end elevation.*

(c) *A plan.*

Title your drawing "MACHINE PATTERN" in letters  $\frac{1}{4}$ " high and show six of the main dimensions.

2. Convert the orthographic drawing in Fig. 2 into an oblique OR an isometric view. Follow the given dimensions.

3. A square based pyramid and a circular slab are shown in plan and elevation, Fig. 3. *Reproduce* this drawing and show (looking in the direction of the arrow) the elevation of the section cut by the vertical plane A.B. which is  $\frac{1}{2}$ " from centre line.

4. Draw the *complete* development of the tray shown in Fig. 4. One end is *open*, the other end is *semi-circular*, and the base projects  $\frac{1}{4}$ " all round.

## SECTION 2.

5. *Reproduce* the letter "L" shown in Fig. 5. The height A equals  $2\frac{1}{2}$ ". Draw a *similar* letter having A equal to 6".

6. Draw the design shown in Fig. 6 to *one and a half times* the size of the given diagram. Show *all* construction lines clearly.

7. The *perimeter* of an isosceles triangle is 10". The base is  $\frac{3}{4}$  *the length* of one of the equal sides. Construct the triangle.

8. A ladder 8' 6" long rests on level ground and leans against a vertical wall. Draw *to scale* the side views of the ladder in the following positions :

(a) When its foot is 2' 9" *from the base* of the wall.

(b) When its foot is *moved out* a further 2' 3".

Make your scale 2 inches to 1 yard showing feet and  $\frac{1}{4}$  feet; overall length of scale to be 12 feet. *Measure and write down* the *base angle* and *vertical height* of the side view when the ladder is in *position* (b).

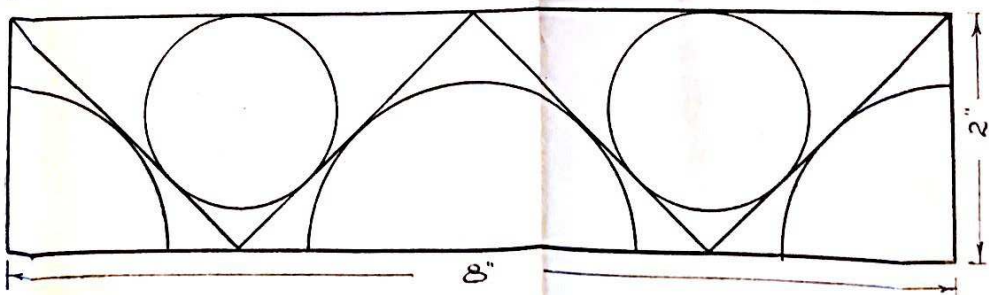
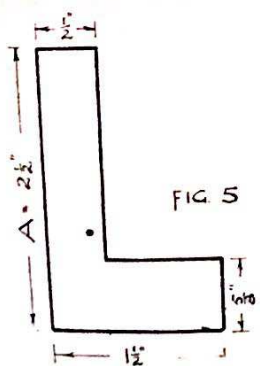
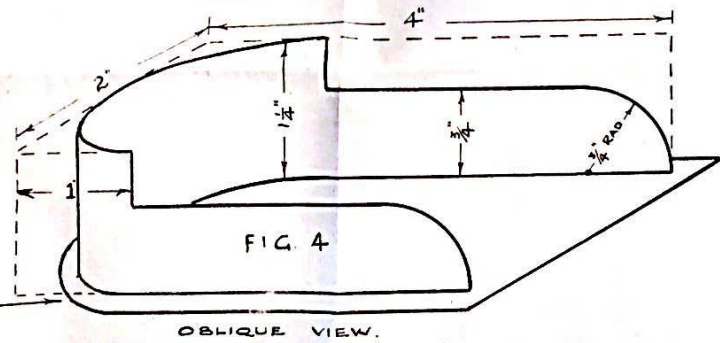
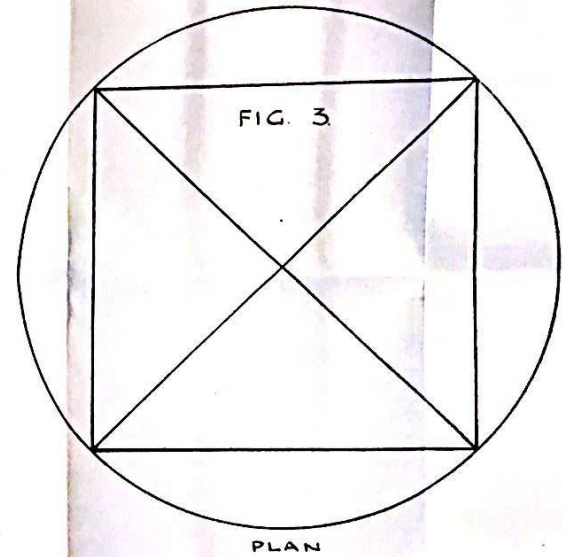
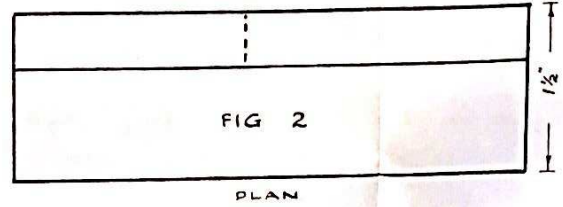
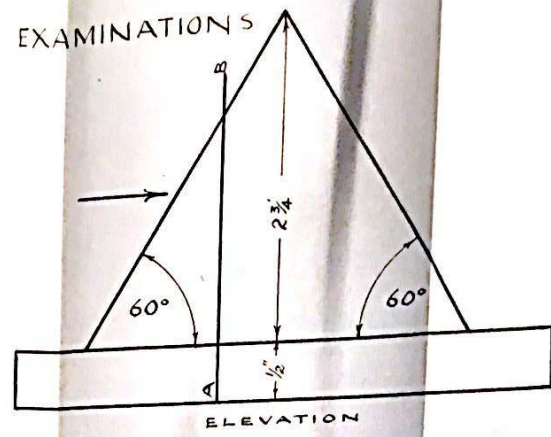
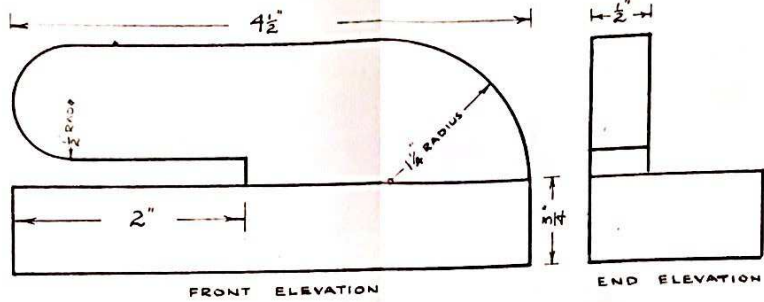
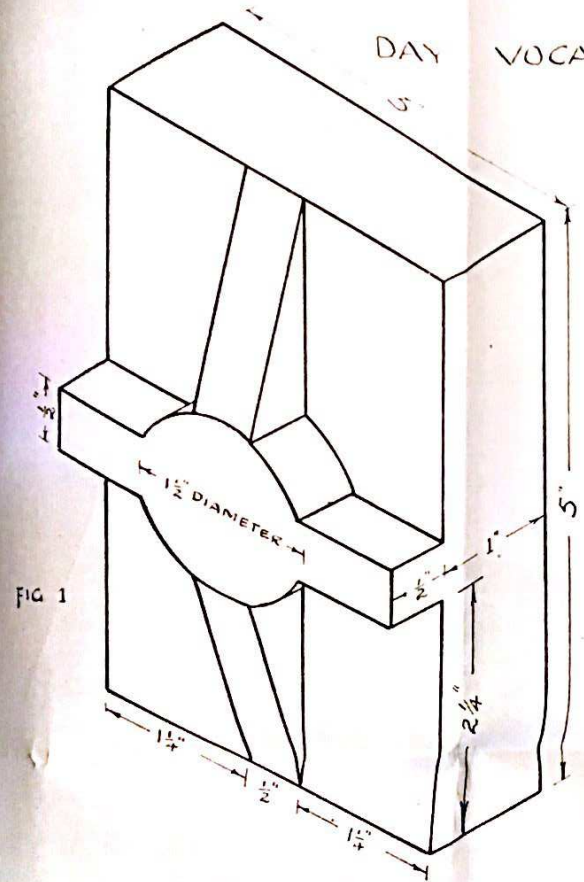


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DAY VOCATIONAL COURSES

CERTIFICATE EXAMINATIONS

1949



BASE PROJECTS 1/4 ALL ROUND