
	INDIAN SCHOOL AL WADI AL KABIR	
Class: XI	Department: SCIENCE – 2022-2023 SUBJECT: <u>ENGINEERING GRAPHICS</u>	Date of Completion: 11.08.22
Worksheet No:1 With Answers	Topic: RECTILINEAR FIGURES	Note: A4 FILE FORMAT
NAME OF THE STUDENT:	CLASS: XI SECTION:C	ROLL NO:

1. Construct a regular hexagon on a baseline of 40 mm.

Divide a straight-line AB, proportionate to seven equal parts.

2. Construct a Right-angled Triangle ABC, having its hypotenuse AC = 60 mm and altitude AB = 40 mm.

3. Construct an Isosceles Triangle QPR, having each of its sides = 50mm and base = 40 mm.

4. Construct an equilateral triangle Of 40 mm sides.

5. Construct a Triangle ABC, having its base BC=50mm, side AB=40mm, side AC=60mm.

6. Construct a rectangle ABCD having its base AB = 60 mm and its side AD = 40 mm.

7. Construct a Trapezion or Kite ABCD, having its diagonal AC=50mm, its adjacent sides AD and AB each equal to 30mm and CD and CB equal to 40mm.

8. Construct a regular pentagon with a base side = 30 mm.

9. Construct a square of 50 mm sides

10. Divide a straight-line AB, proportionate to seven equal parts.

MULTIPLE CHOICE QUESTIONS

1. In the Metric system the standard-length measure is -----

- a) Yard
- b) Meter
- c) Centimeter
- d) None of the above

2. Continuous thick line is used to denote -----

- a) Visible edges
- b) Axis line
- c) Leader line
- d) Projection line

3.The axis of a circle is denoted by which type of lines-----

- a) Continuous thick lines
- b) Centre line
- c)Continuous thin lines
- d)Double dashed lines

4. Mini drafter is a combination of -----

- a) Scale and compass
- b) compass and divider
- c) scale and protractor
- d) Protractor and compass

5. In an equilateral triangle all angles are equal to -----

- a) 45 degree
- b)60 degree
- c)90 degree
- d)None of the above

6. The size of an A2 drawing sheet is -----

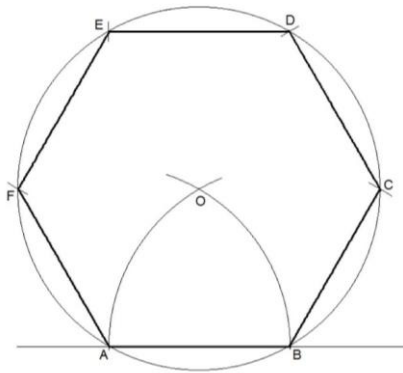
- a)841 x 1189
- b) 594 x 841
- c) 420 x 594
- d)210 x 297

Answers – Multiple Choice Questions

- 1.b) Meter
- 2.a) Visible edges
- 3.b) Centre lines
- 4.c) scale and protractor
- 5.b) 60 degree
- 6.c)420 x 594

Answers – Drawings with Hint points

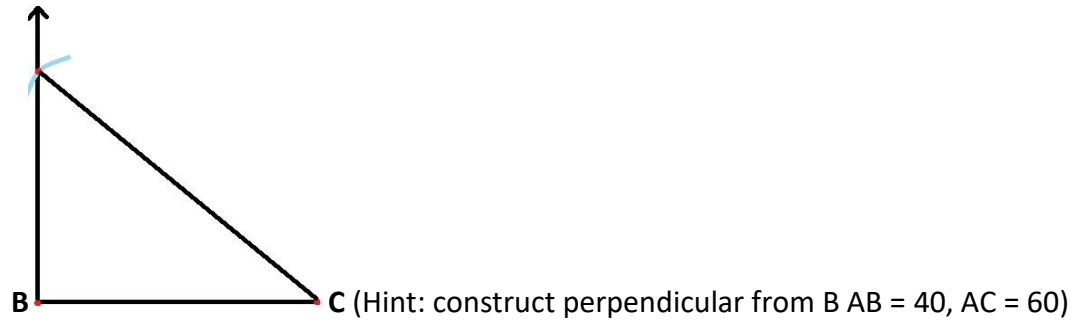
1.



(Hint: On a baseline cut arcs equally with 30 mm and draw a circle with center O and radius OA, cut arcs equally on the circle, join all points will get a hexagon).

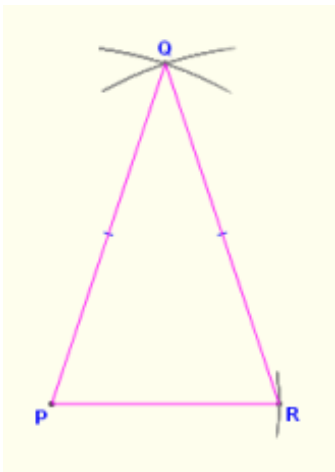
2.

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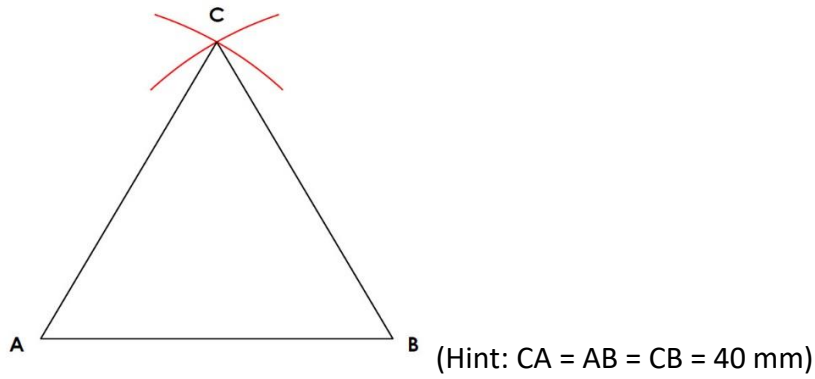


3.

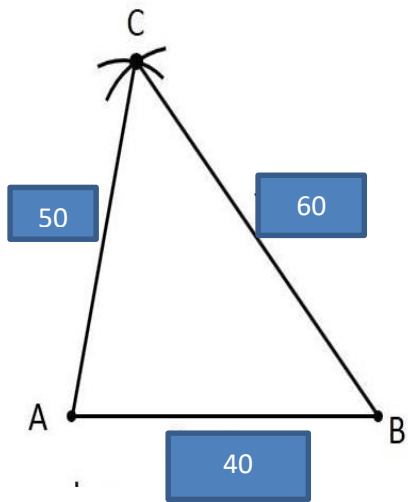
(Hint: $QP = QR = 50$ mm, $PR = 40$ mm)



4.

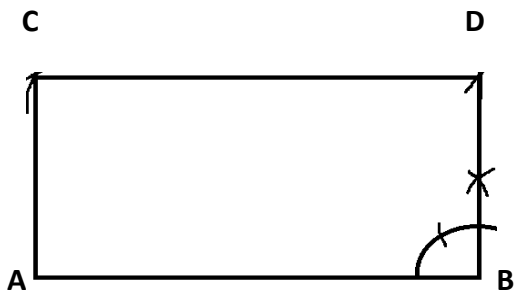


5.



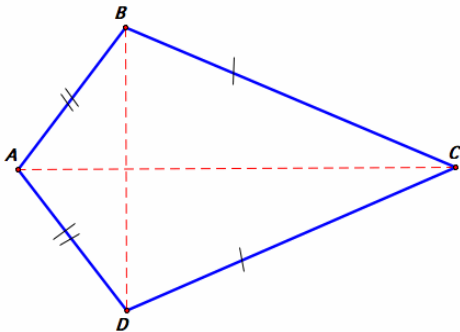
(Hint: $AB = 40$, $AC = 50$, $BC = 60$, using compass)

6.



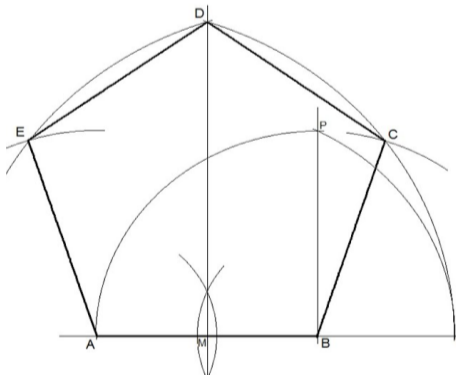
(Hint: $AB = 60$, $AD = 40$, Construct perpendicular from both points A and B).

7.



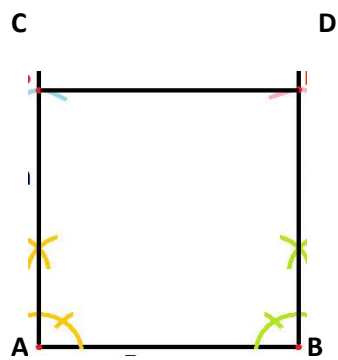
(Hint: Diagonal $AC = 50$, $AB = AD = 30$, $CD = CB = 40$ mm)

8.



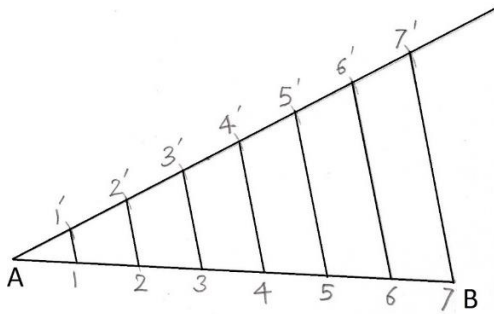
(Hint: Construct a regular pentagon on a baseline $AB = 30$ mm, using a compass)

9.



(Hint: Construct perpendiculars from points A and B, take equal measurements of 40 mm and cut arcs to get a square).

10.



(Hint: Using Copy angle method)

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