



Sri Raghavendra Tuition Center

GRAPH, PRACTICAL GEOMETRY

10th Standard

Maths

Date : 19-07-24

Reg.No. :

Exam Time : 01:00 Hrs

Total Marks : 16

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EACHER NAME: P.DEEPAK M.Sc.,M.A.,B.Ed.,DCA.,TET-1.,TET-2.,

PHONE NUMBER : 9944249262

EMAIL: darthi99ktp@gmail.com

Centum Book Available

IV. Answer all question.

2 x 8 = 16

- 1) a) Draw the graph of $y = x^2 - 4x + 3$ and use it to solve $x^2 - 6x + 9 = 0$

(OR)

- b) Varshika drew 6 circles with different sizes. Draw a graph for the relationship between the diameter and circumference of each circle as shown in the table and use it to find the circumference of a circle when its diameter is 6 cm.

Diameter (x)cm	1	2	3	4	5
Circumference (y)cm	3.1	6.2	9.3	12.4	15.5

- 2) a) Construct a $\triangle PQR$ such that $QR = 6.5$ cm, $\angle P = 60^\circ$ and the altitude from P to QR is of length 4.5 cm.

(OR)

- b) Draw the two tangents from a point which is 10 cm away from the centre of a circle of radius 5 cm. Also, measure the lengths of the tangents.

All the best
