

c) The slope is 0.5 and the y intercept is 1.6

d) The slope is 5 and the y intercept is 2.6

Part - II

Answer any 3 questions. Question No. 5 is compulsory :

- 2) In the Figure , AD is the bisector of \angle BAC, if AB= 10 cm, AC=14cm and BC = 6 cm. Find BD and DC.
- 3) Find the equation of a line whose intercepts on the x and y axes are 4, -6
- 4) Show that the points P(-1.5, 3), Q(6, -2) and R(-3, 4) are collinear.
- 5) The vertices of a triangle are A(-4, 3), B(1, -1) and C(5, 1). Find the length of the median through the vertex C.

Part - III

Answer any 2 questions. Question No. 8 is compulsory :

- 6) State and Prove Angle bisector Theorem.
- 7) Find the area of the quadrilateral formed by the points (8, 6), (5, 11), (-5, 12) and (-4, 3)
- 8) Let A(3, -4), B(9, -4), C(5, -7) and D(7, -7). Show that ABCD is a trapezium.

Part - IV
$$1 \times 8 = 8$$

 $3 \times 2 = 6$

 $2 \ge 5 = 10$

Answer the question.

9) a) Construct a $\triangle PQR$ which the base PQ = 4.5 cm, $\angle R = 35^{\circ}$ and the median RG from R to PQ is 6 cm.

(OR)

b) Construct a triangle $\triangle PQR$ such that QR = 5 cm, $\angle P = 30^{\circ}$ and the altitude from P to QR is of length 4.2 cm.

Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com