



L.D.A. SCHOOL SYSTEM

Branch: _____

Boys Girls

Name & Initials of Invigilator

Exercise 9.2

Q.1 Identify the parallel, intersecting & perpendicular lines

(i) parallel lines

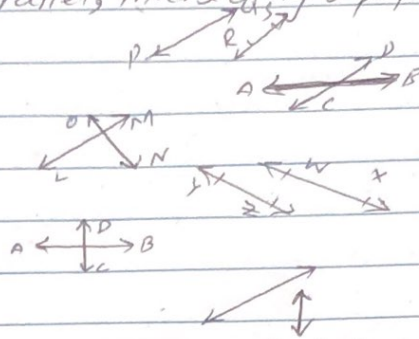
(ii) Intersecting lines

(iii) Intersecting lines

(iv) parallel lines

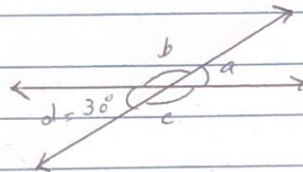
(v) Perpendicular

(vi) Intersecting



Q.2 Find the unknown angles of intersecting lines

(i)



$$\angle a, \angle b, \angle c = ?$$

$$\angle d = 30^\circ$$

$$\angle a = \angle d \text{ vertically opposite angles}$$

$$\angle b = \angle c \text{ vertically opposite angles}$$

$$\angle a = 30^\circ$$

$$\angle a + \angle b = 180 \text{ supplementary angles}$$

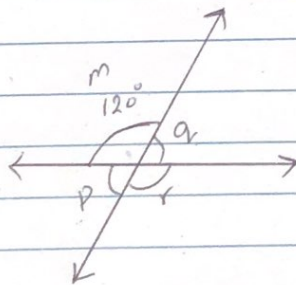
$$30 + \angle b = 180$$

$$\angle b = 180 - 30$$

$$\angle b = 150^\circ$$

$$\angle c = 150^\circ$$

(ii)



$$\angle p, \angle q, \angle r = ?$$

$$\angle m = 120^\circ$$

$$\angle m = \angle r \text{ vertically opposite angles}$$

$$\angle p = \angle q \text{ vertically opposite angles}$$

$$\angle r = 120^\circ$$

$$\angle m + \angle q = 180 \text{ supplementary angles}$$

$$120 + \angle q = 180$$

$$\angle q = 180 - 120$$

$$\angle q = 60^\circ$$

$$\angle p = 60^\circ$$