MATHS

BOOKS - RD SHARMA MATHS (ENGLISH)

PAIR OF LINES AND TRANSVERSAL

Others

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1. Identify parallel line segments shown in Figure.

2. Name the pairs of all possible parallel edges of the pencil box whose figure is shown in Figure.

3. In Figure, do the segments AB and CD intersect? Are they parallel? Give reasons.

4. State which of the following statements are true (T) or which are false (F) If two lines in the same plane do not intersect, then they must be parallel.

Distance between two parallel lines is not same everywhere.

If $m \perp l,\ n \perp l$ and $m \neq n,$ then mn

Two non-intersecting coplanar rays are parallel.

No two parallel segments intersect.

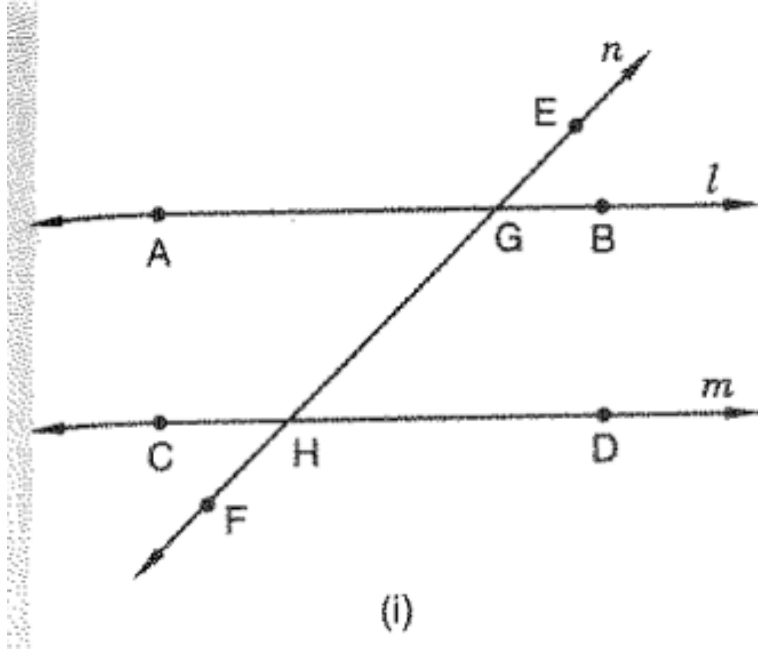Every pair of lines is a pair of coplanar lines.

Two lines perpendicular to the same line are parallel.

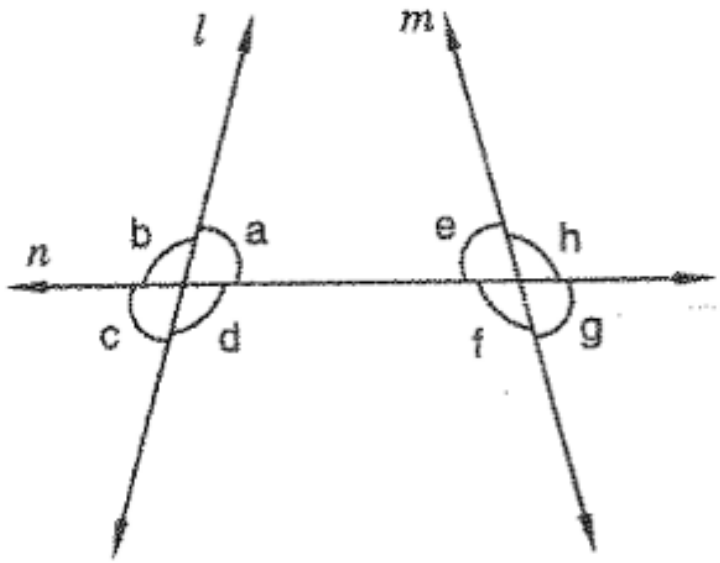A line perpendicular to one of two parallel lines is perpendicular to the other.

5. In Figure, line n is a transversal to line l and m . Identify the following Alternate and corresponding angles in
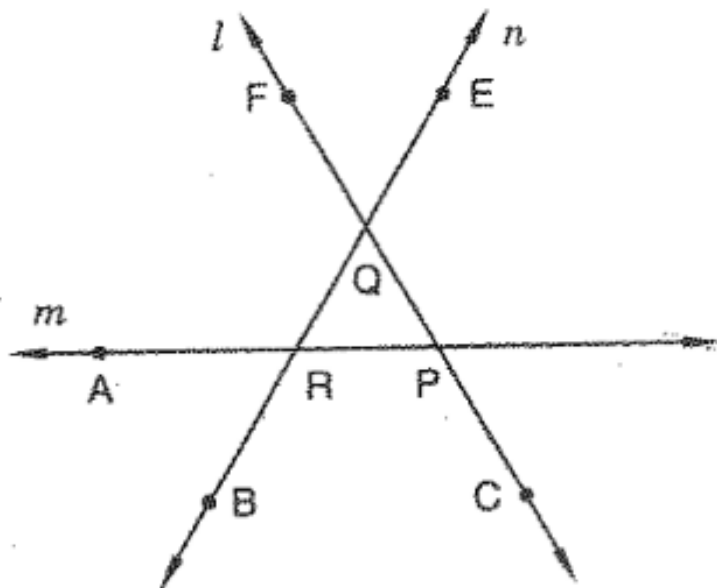
(i)

(ii) Angles alternate to $\angle d$ and $\angle g$ and angles corresponding to angles $\angle f$ and $\angle h$ in figure

(ii)

(iii) Angle alternative to $\angle PQR$, angle corresponding to $\angle RQF$ and angle alternate to $\angle PQE$ in Figure (iv) Pairs of interior and exterior angles on the same side of the
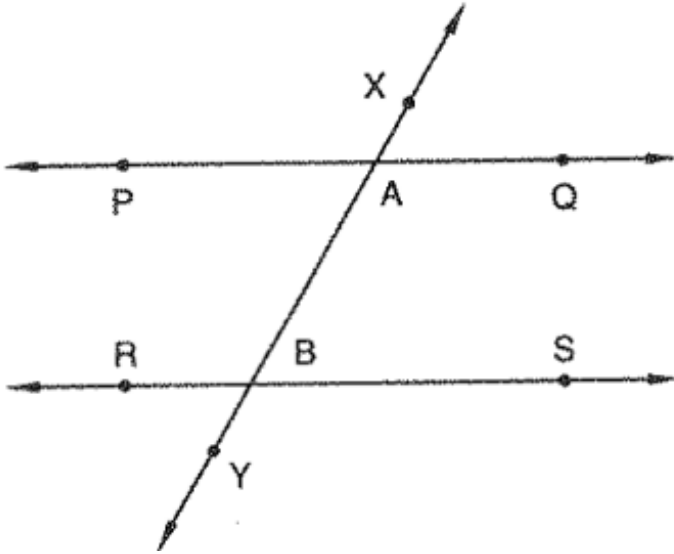
transversal m in

6. Match column A and Column B with the help

of the Figure.

(i) Vertically opposite angles

(ii) Alternate angles

(iii) Corresponding angles

(a) $\angle PAB$ and $\angle ABS$

(b) $\angle PAB$ and $\angle RBY$

(c) $\angle PAB$ and $\angle XAQ$