



Basic Geometrical Concepts Ex 10.1 Q16

Answer :

No p , q and r are not necessarily coplanar.

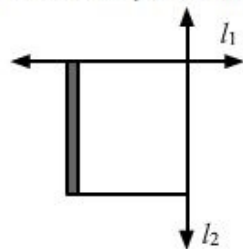
e.g.:- If we take p as intersecting line of two consecutive walls of a room, q as a line on the first wall and r on the second wall whose (both walls) intersection is line p .

Then we can see that p , q and r are not coplanar.

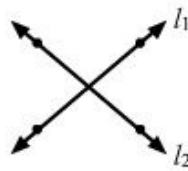
Basic Geometrical Concepts Ex 10.1 Q17

Answer :

(i) Three examples of intersecting lines in our environment:



Two adjacent edges of your notepad



The letter X of the English alphabet



Crossing-roads

(ii) Three examples of parallel lines in our environment:



The cross-bars of this window



The opposite edges of ruler (scale)

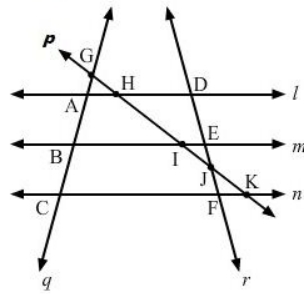


Rail lines

Basic Geometrical Concepts Ex 10.1 Q18

Answer :

We have:



- (i) All pairs of parallel lines: (l, m) , (m, n) and (l, n)
- (ii) All pairs of intersecting lines: (l, p) , (m, p) , (n, p) , (l, r) , (m, r) , (n, r) , (l, q) , (m, q) , (n, q) , (q, p) and (q, r)
- (iii) Lines whose point of intersection is I: (m, p)
- (iv) Lines whose point of intersection is D: (l, r)
- (v) Lines whose point of intersection is E: (m, r)
- (vi) Lines whose point of intersection is A: (l, q)
- (vii) Collinear points: $(G, A, B \text{ and } C)$, $(D, E, J \text{ and } F)$, $(G, H, I, J \text{ and } K)$, $(A, H \text{ and } D)$, $(B, I \text{ and } E)$, and $(C, F \text{ and } K)$

Basic Geometrical Concepts Ex 10.1 Q19

Answer :

From the given figure, we have:

Concurrent lines can be defined as three or more lines which share the same meeting point.
Clearly lines n , q and l are concurrent with A as the point of concurrence.
Lines m , q and p are concurrent with B as the point of concurrence.

Basic Geometrical Concepts Ex 10.1 Q20

Answer :

From the given figure, we have:

- (i) Six lines can be drawn through these four points as given in the figure.
- (ii) These lines are AB, BC, CD, AD, BD and AC.
- (iii) Lines which are concurrent at A are AC, AB and AD.

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