Basic Geometrical Concepts Ex 10.1 Q16

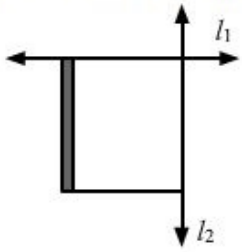
Answer :

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.

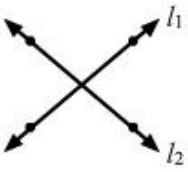
Basic Geometrical Concepts Ex 10.1 Q17

Answer :

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



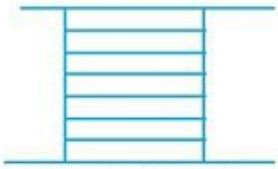
Two adjacement edges of your notbook



The letter X of the english alphabet

Crossing-roads

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



The cross-bars of this window

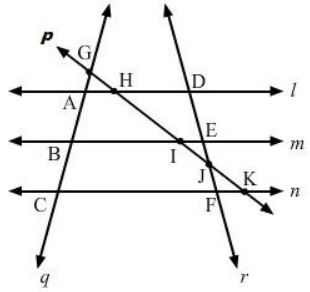
The opposite edges of ruler (scale)

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 and C), (D, E, J and F), (G, H, I , J and K), (A, H and D), (B, I and E), and (C, F 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.

********** END **********