Exercise 12

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1.

Solution

The pairs of parallel edges of the top are AD || BC and AB || DC as they do not intersect even if these line segments are produced indefinitely in both direction.

2.

Solution

The groups of parallel edges are (AB || HE || DC || GF), (DA || GH || CB || FE), (DG || CF || AH || BE) since they do not meet each other even if produced indefinitely in either direction.

3.

Solution

(i) Parallel line segment in the figure is (DE || BC) because they do not intersect each other.

(ii) (AB || DC) and (AD || BC) are parallel lines since they do not intersect each other.

(iii) (AB || DC) and (DA || CB) are parallel lines as they do not intersect each other.

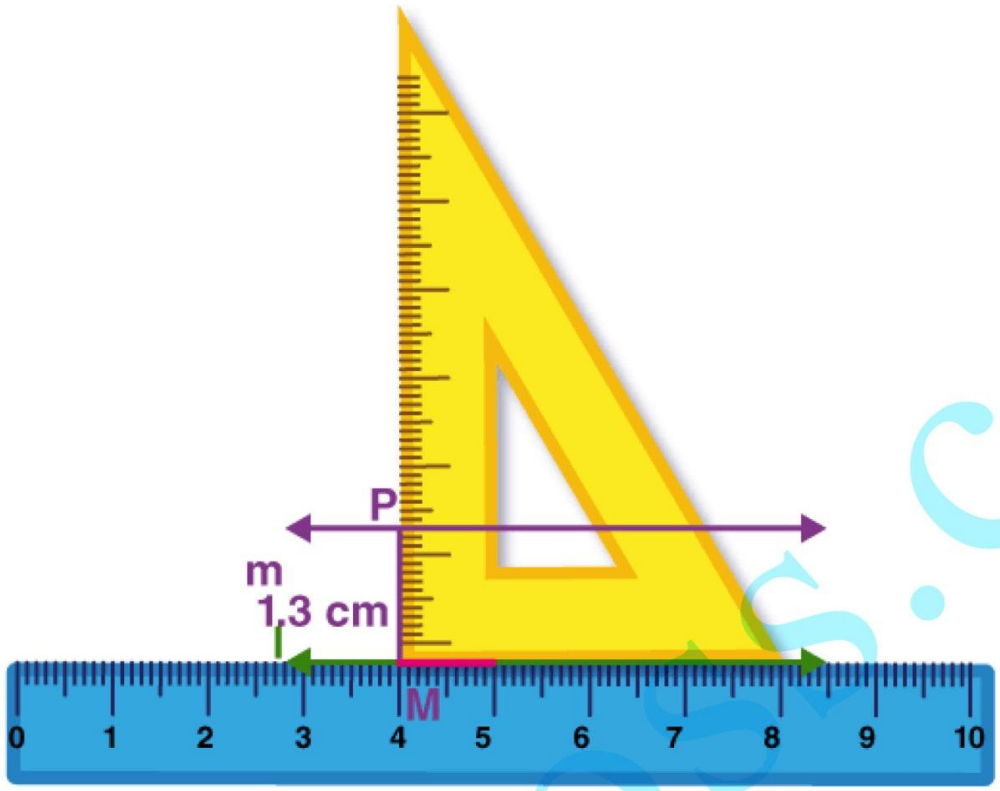
(iv) (LM || RQ), (SL || QP) and (RS || PM) are parallel lines since they are non-intersecting

(v) (BA || DC || FE), (AC || BD) and (CE || DF) are parallel since they do not intersect each other.

4.

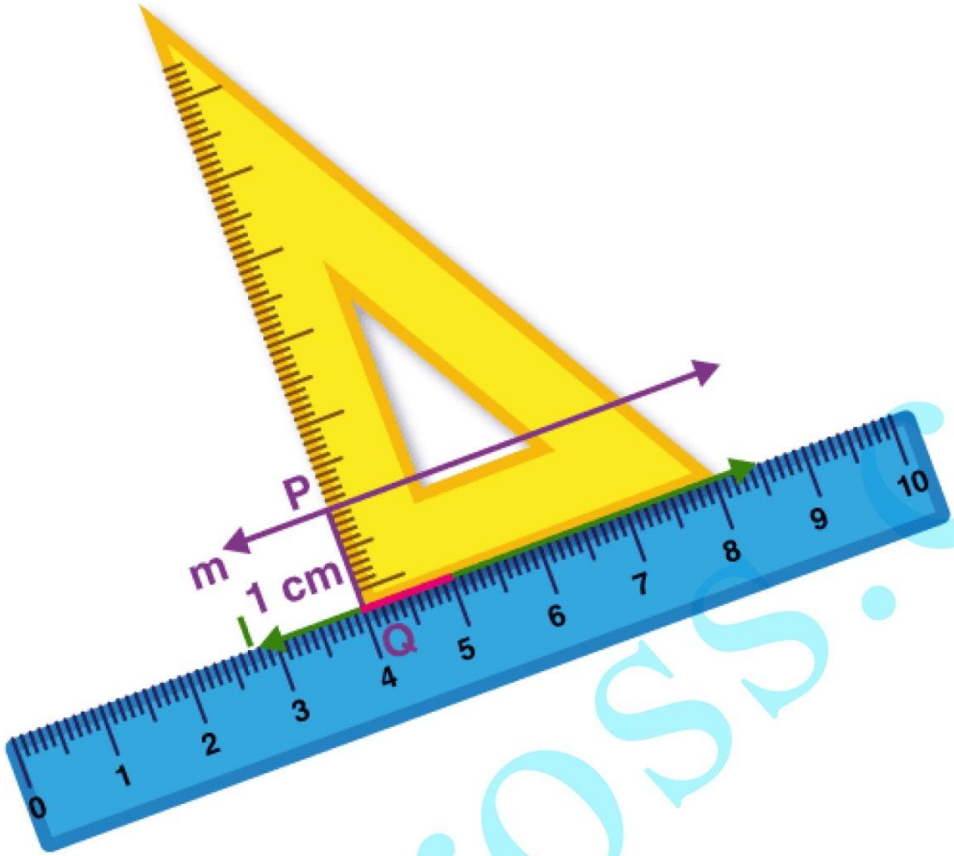
Solution

(i)



Distance between l and m is 1.3 cm

(ii)



Distance between l and m is 1 cm