

Maths Points

Junior and Leaving Cert

FORMAL GEOMETRY Proofs

LEAVING CERT HIGHER LEVEL

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Leaving Cert Theorems

Theorem 11

If three parallel lines cut off equal segments on some transversal line, then they will cut off equal segments on any other transversal.

Theorem 12

Let \triangle ABC be a triangle. If a line l is parallel to BC and cuts [AB] in the ratio s:t, then it also cuts [AC] in the same ratio.

Theorem 13

If two triangles \triangle ABC and \triangle A' B' C' are similar, then their sides are proportional, in order.

Syllabus Wording:

Students will study all the theorems and corollaries prescribed for LCOL, but will not, in general, be asked to reproduce their proofs in examination. However, they may be asked to give proofs of the Theorems 11, 12, 13, concerning ratios, which lay the proper foundation for the proof of Pythagoras studied at JC.



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