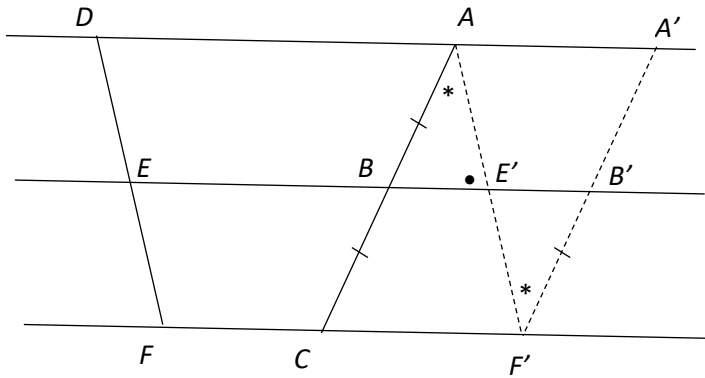


Question

(30 marks)

- (a) Prove that if three parallel lines cut off equal segments on some transversal line, then they will cut off equal segments on any other transversal line.

Diagram:



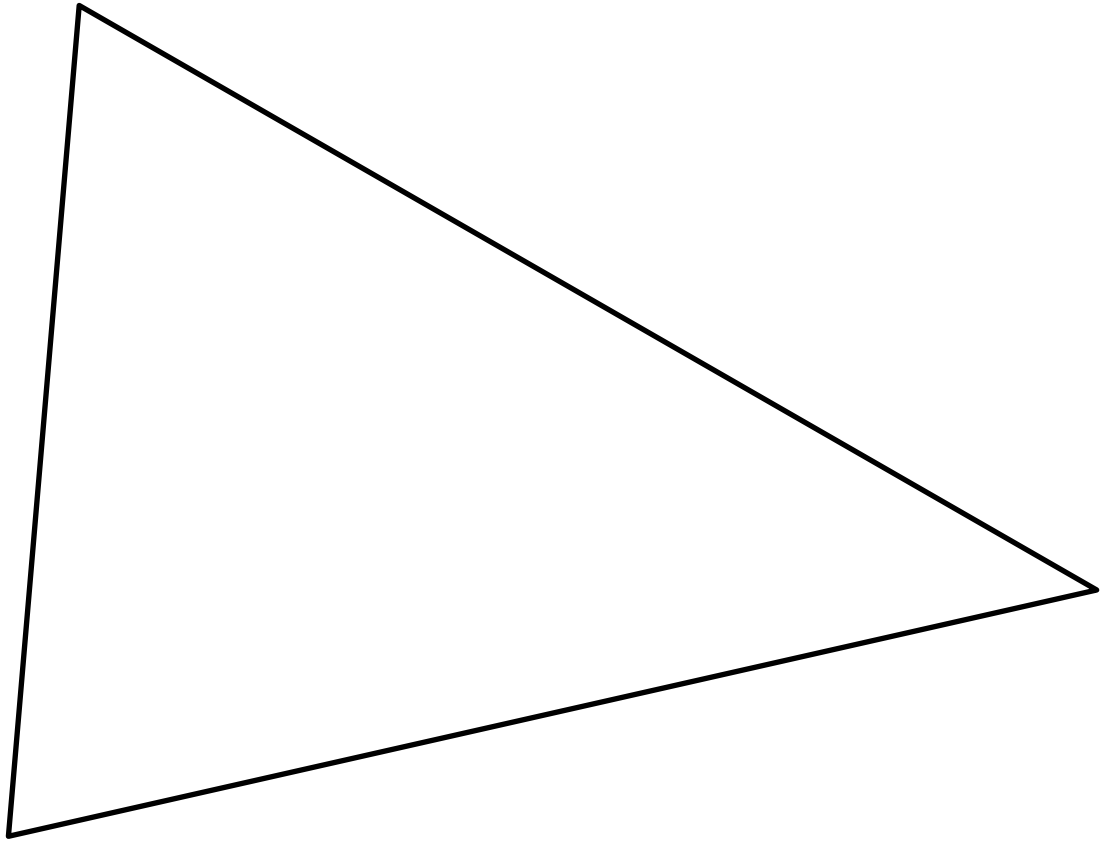
Given :

To prove :

Construction :

Proof :

- (b) A student is trying to find the centre of gravity of the following triangle. Use a suitable geometrical construction to find this point.



- (c) What is the name given to this point?

