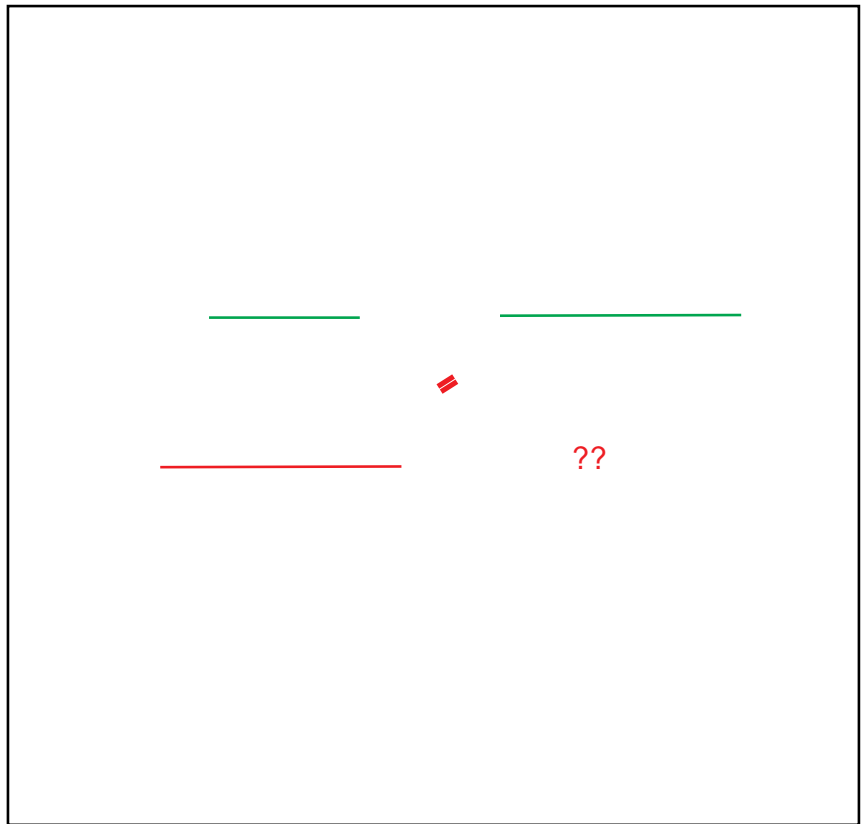
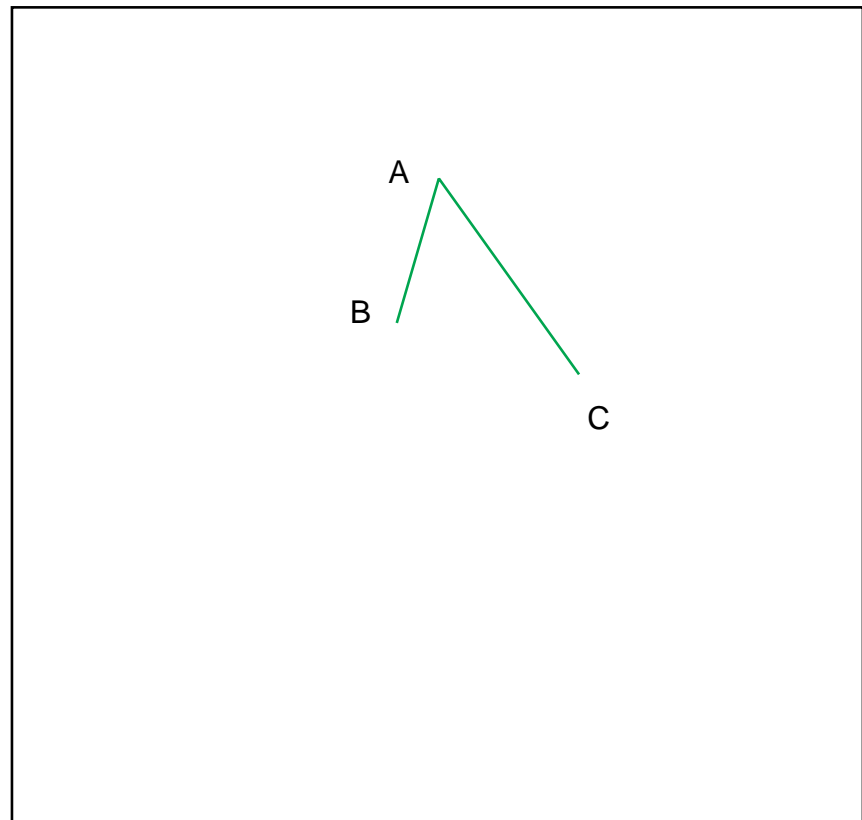

Construction 41: Book VI, Proposition 11

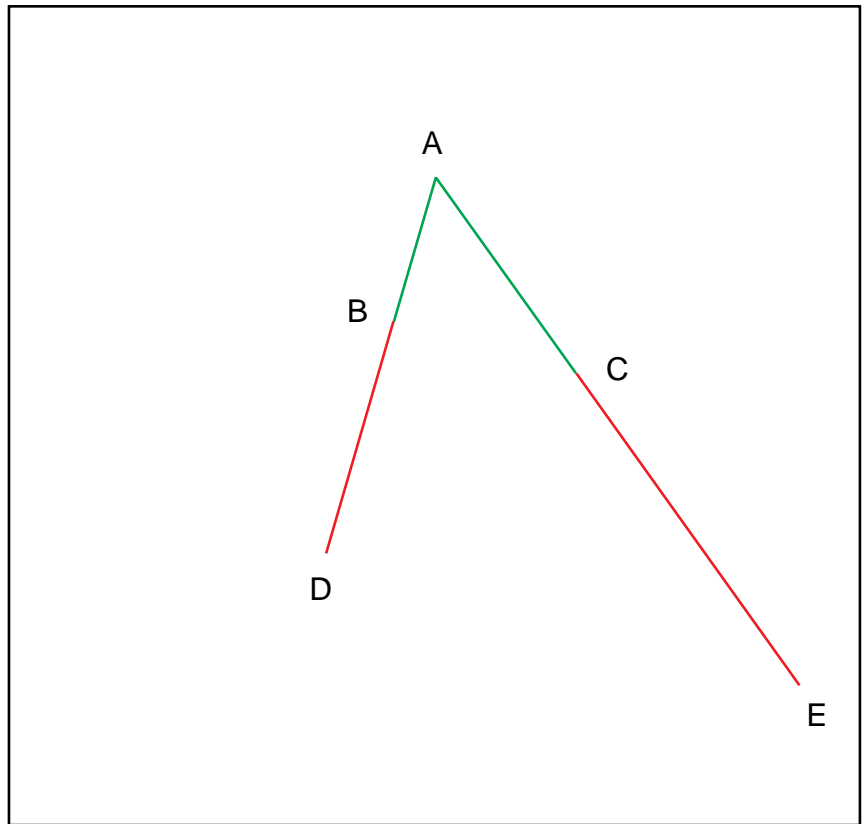
*From two given straight lines to
find a third proportional.
([V. Def. 6])*



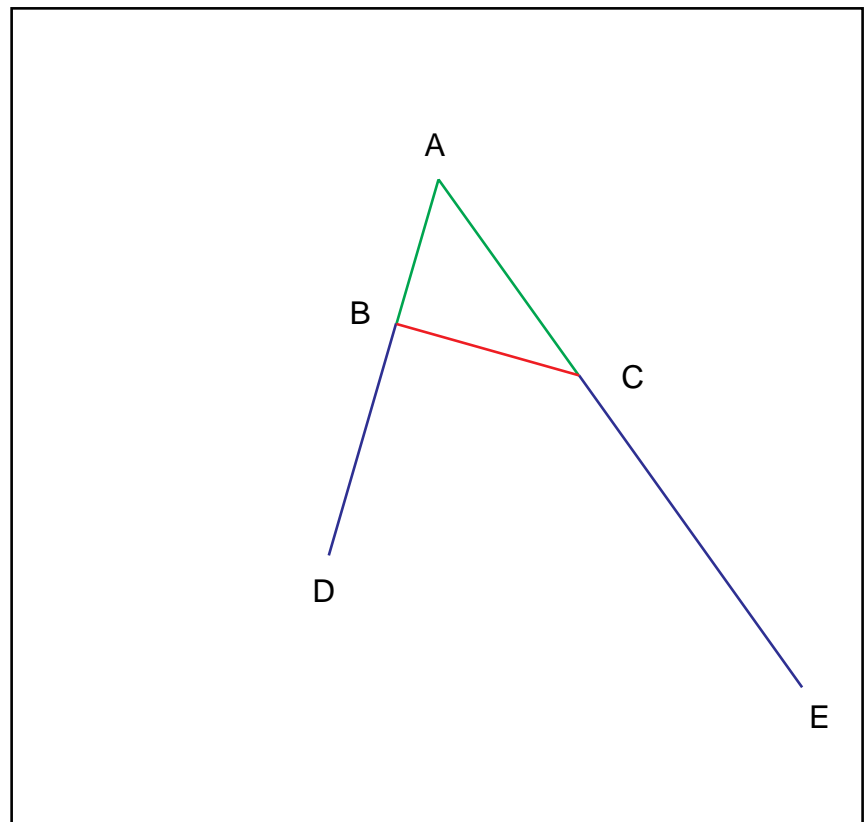
VI.11:2. Let BA, AC be the two
given straight lines, and let them
be placed so as to contain any
angle;



VI.11:7. For let them be produced to the points D, E, and let BD be made equal to AC; [I.3, compass]



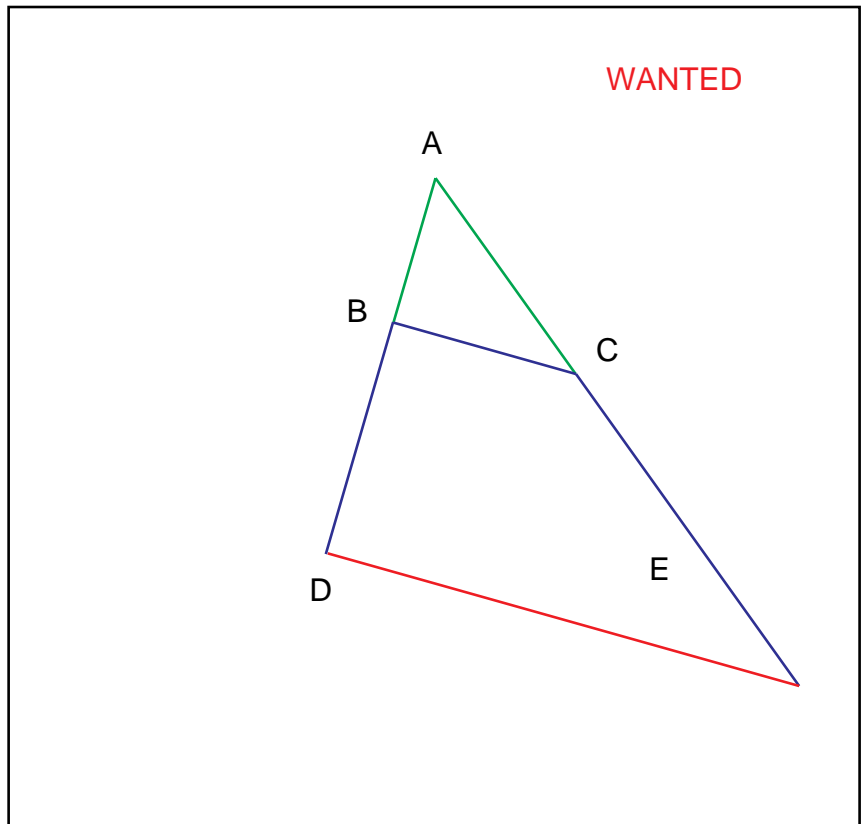
VI.11:10. let BC be joined,



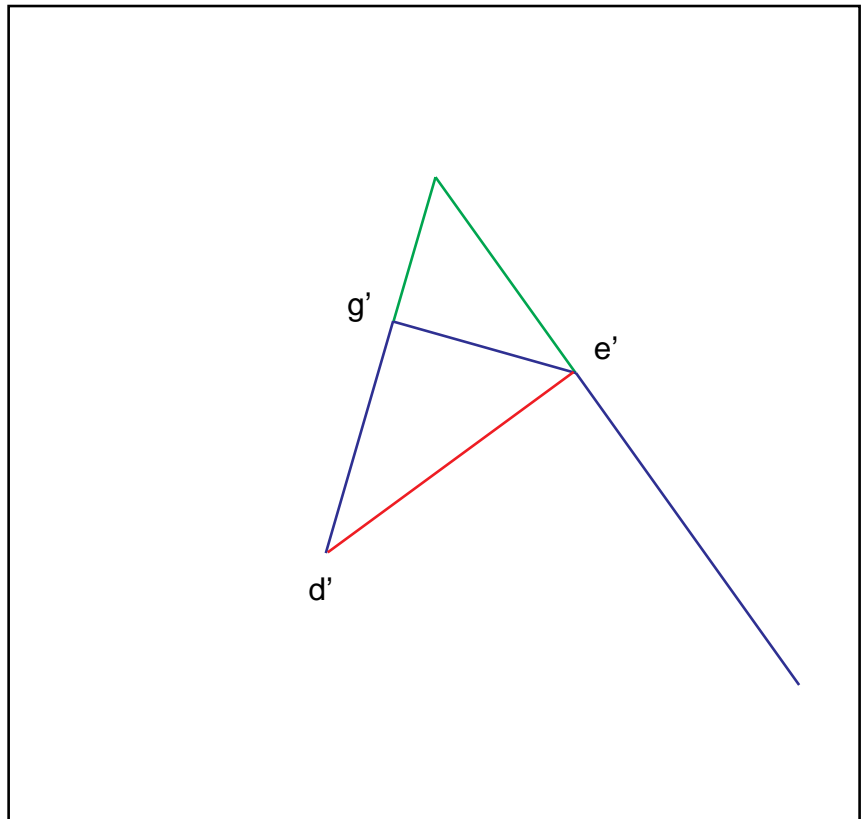
VI.11:10. and through D let DE be drawn parallel to it. [I.31]

GOSUB I.31, C#10.

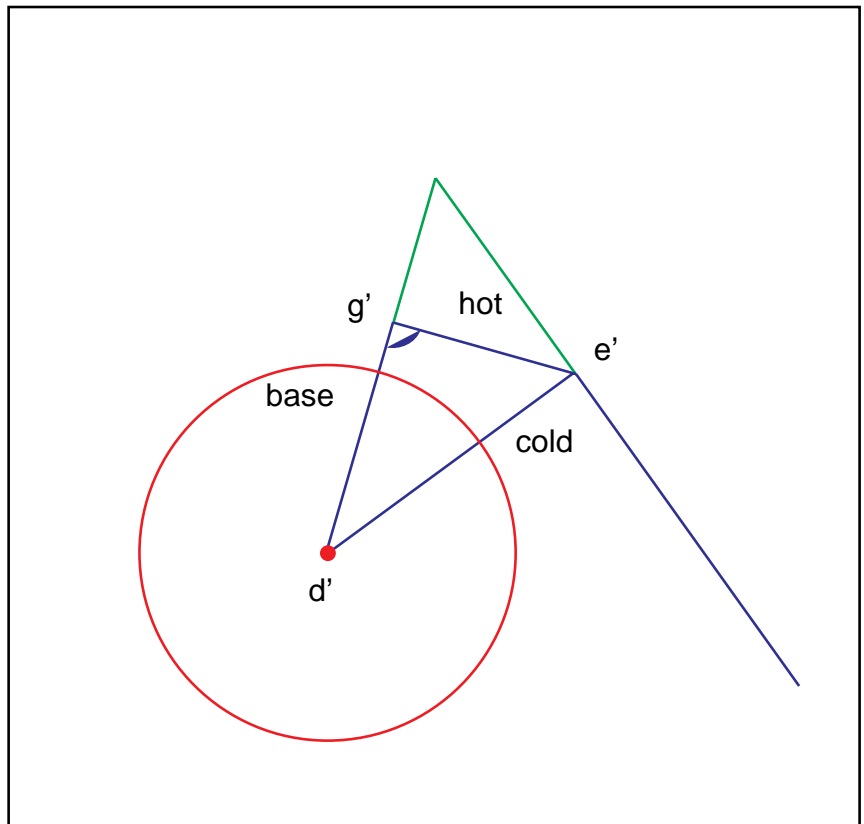
GOSUB I.23, C#9.
Relabel.



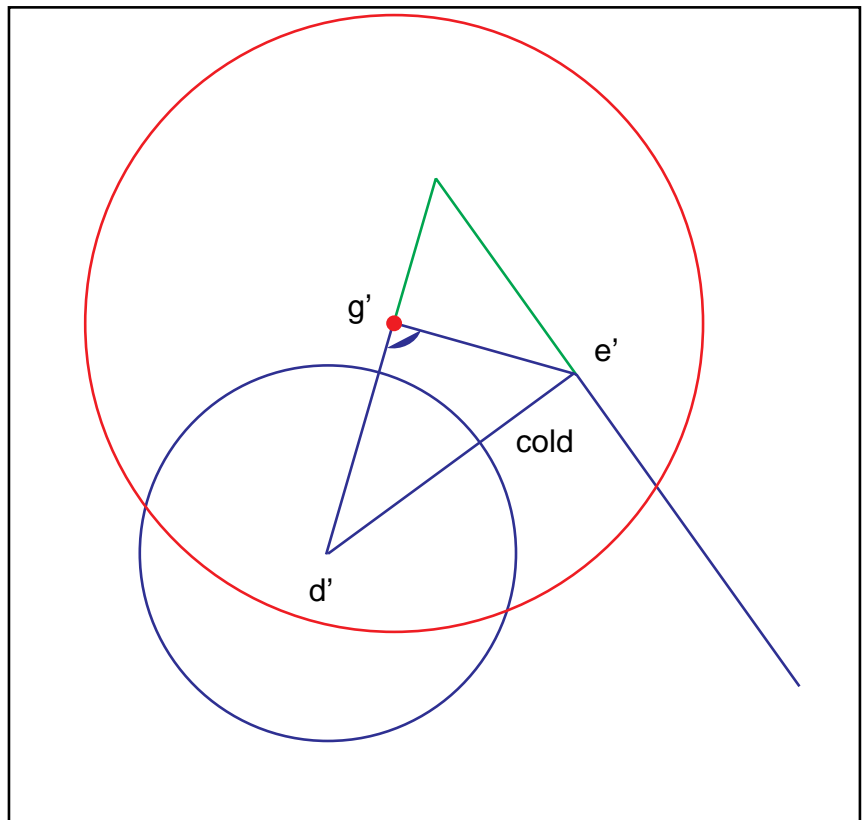
I.23:10. let d'e' be joined.



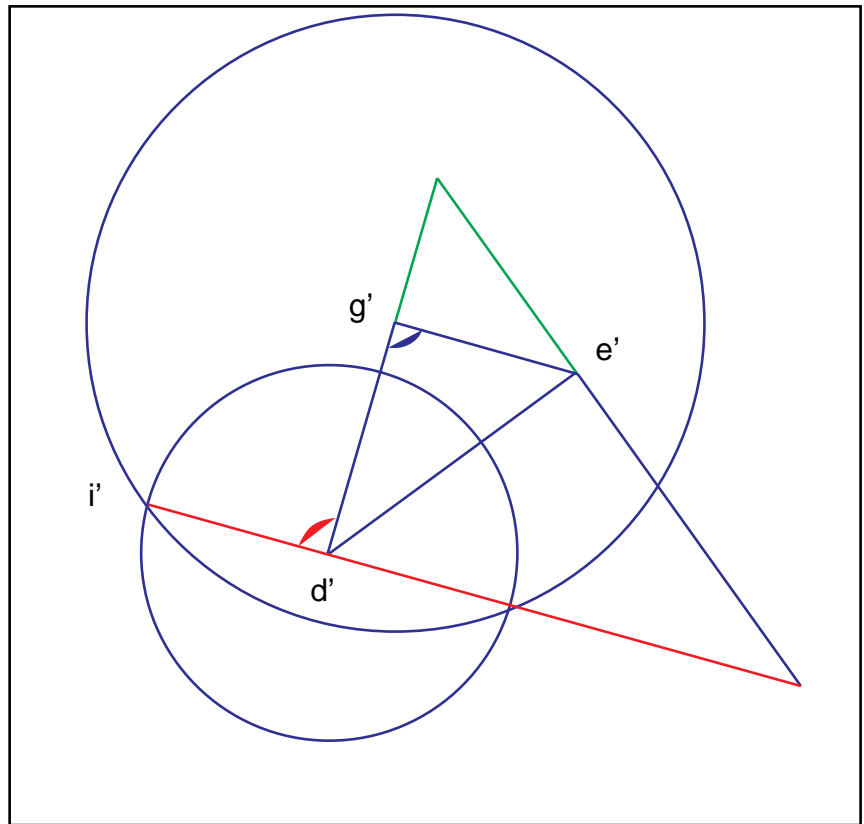
Swing the hot arm around d' .



Swing the cold arm around g' .

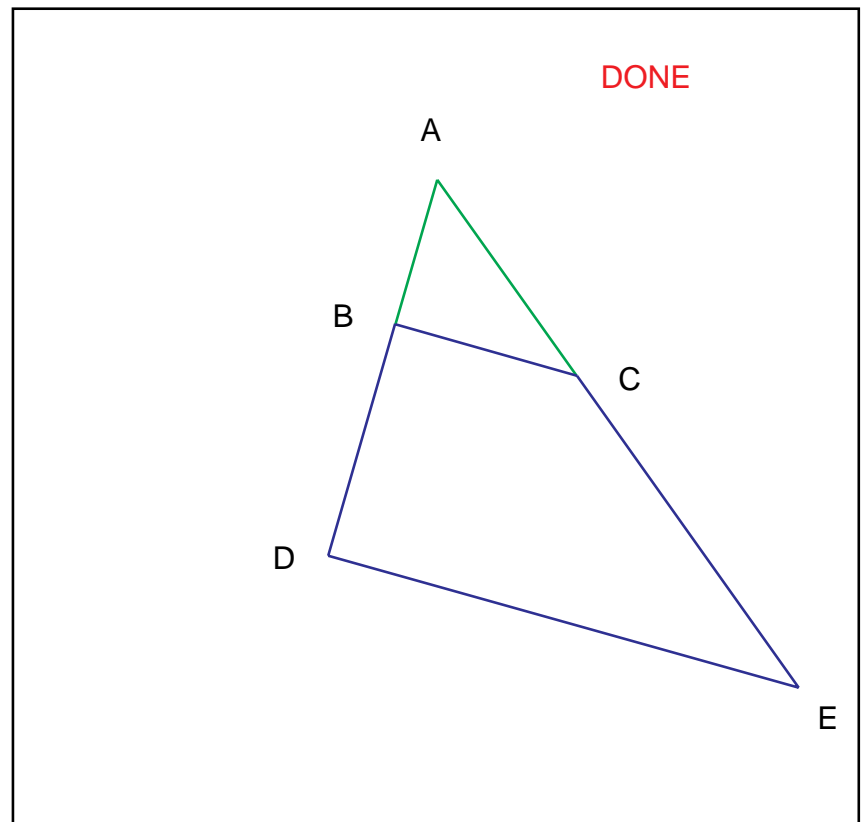


Connect the left crossing i' to d' and extend.



Cleanup.
 RETURN to I.31.
 RETURN to VI.11:10.
 Relabel.

VI.11:16. as AB is to AC, so is AC to CE.



Q.E.F.

