

Hans Walser

Schlussgeraden 101-

Geraden durch drei oder mehr Punkte.

Die Bildsequenzen sind als Bilder möglichst ohne Worte konzipiert.

Farbsystematik:

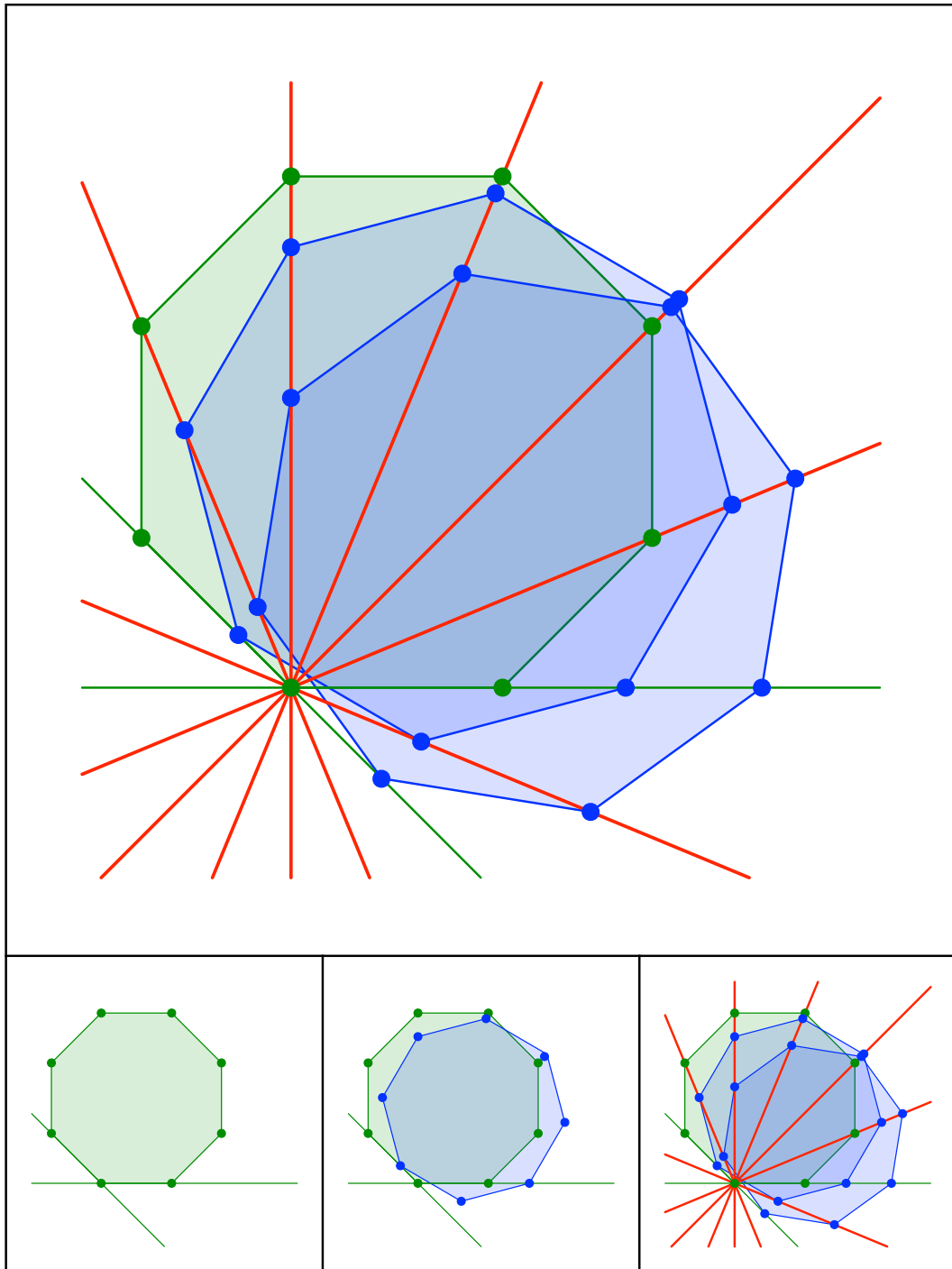
- Ausgangsfigur
- Folgefigur 1
- Folgefigur 2
- Schlussgerade

Die drei kleinen Bilder im Querstreifen deuten die Entstehung der Gesamtfigur an.

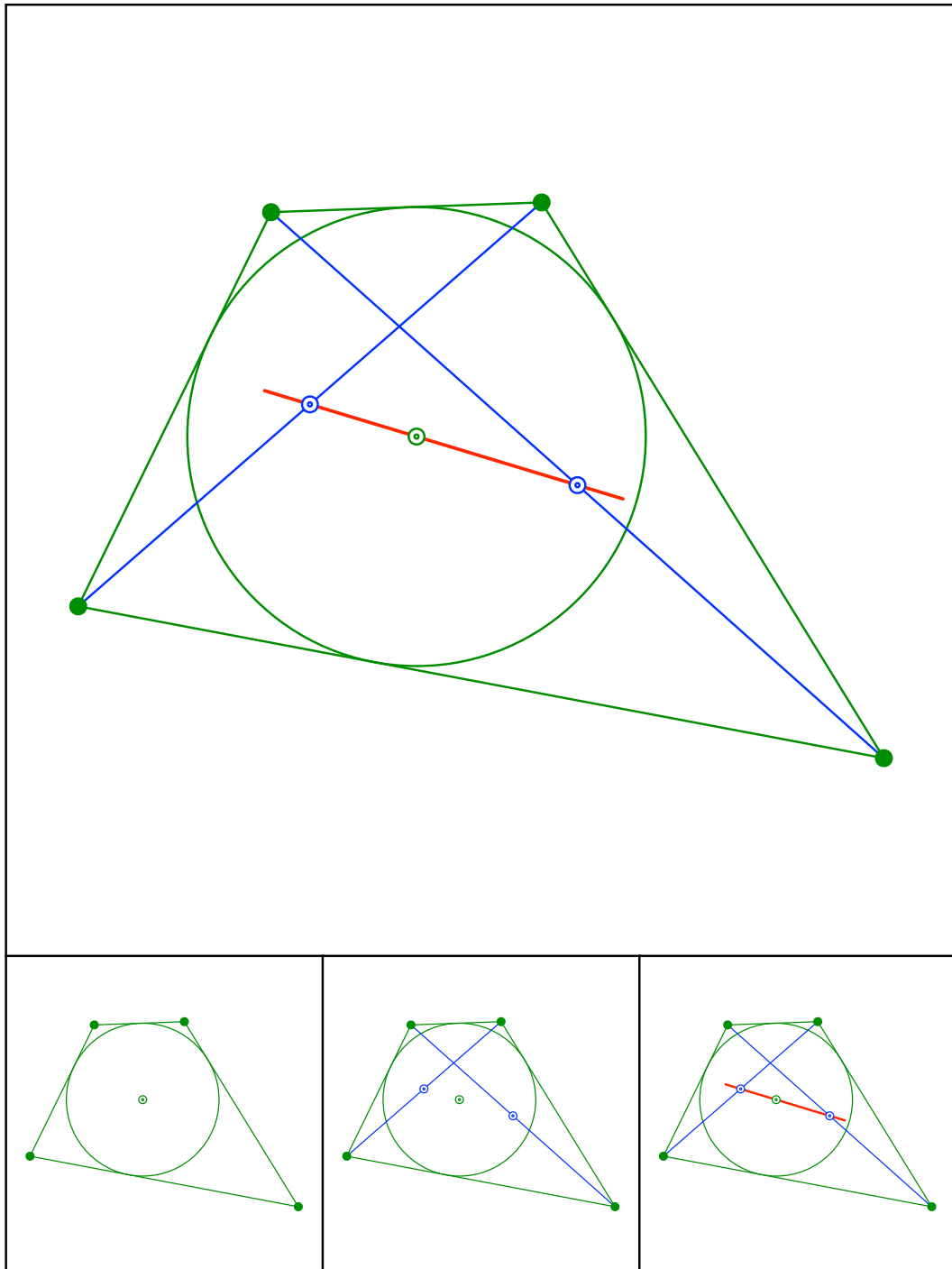
Gegebenenfalls finden sich unterhalb der Figur Literaturangaben oder Hinweise auf Anregungen, die zu diesen Figuren geführt haben.

Letzte Änderung: 9. August 21

Schlussgerade 101

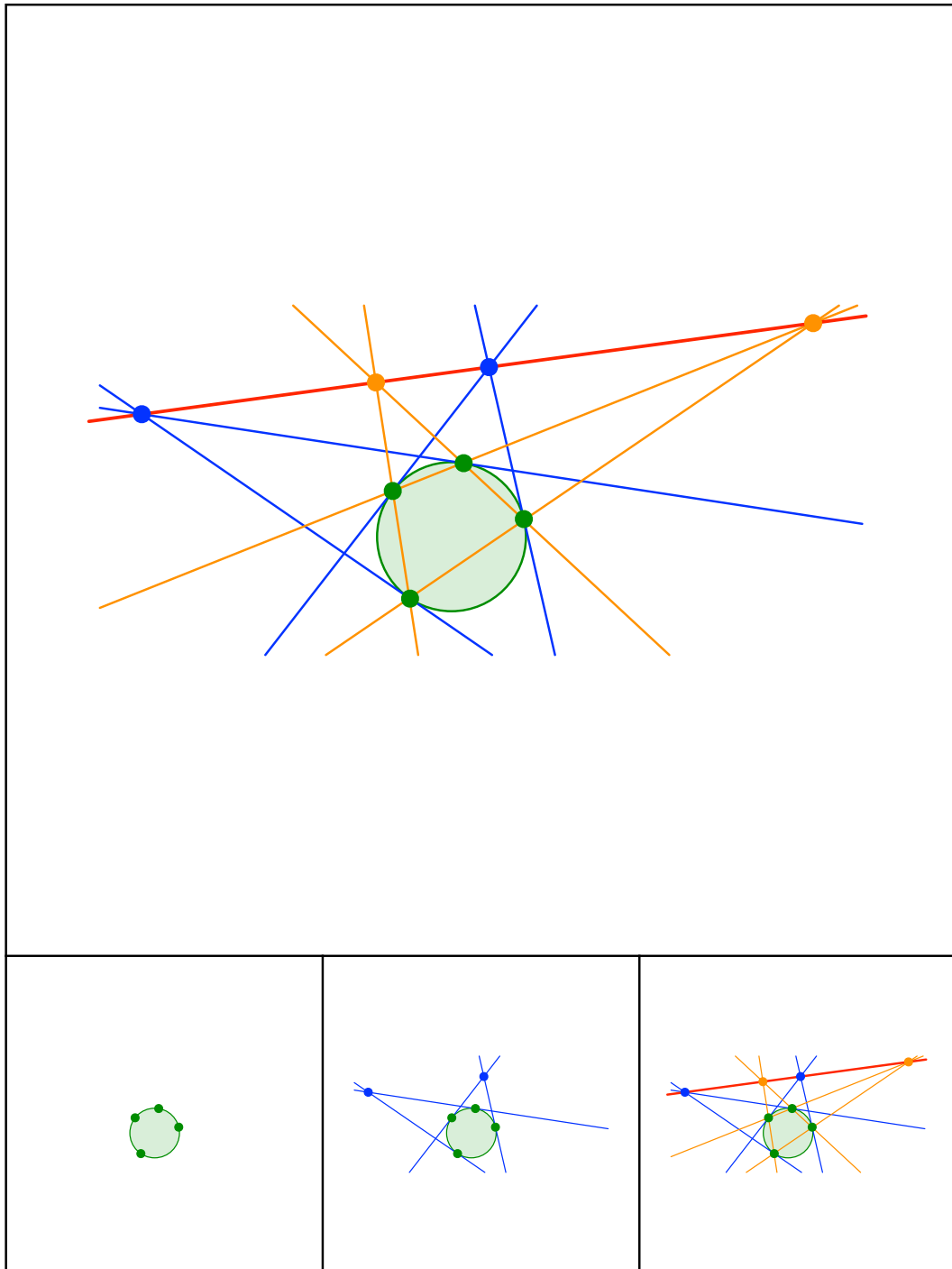


Schlussgerade 102

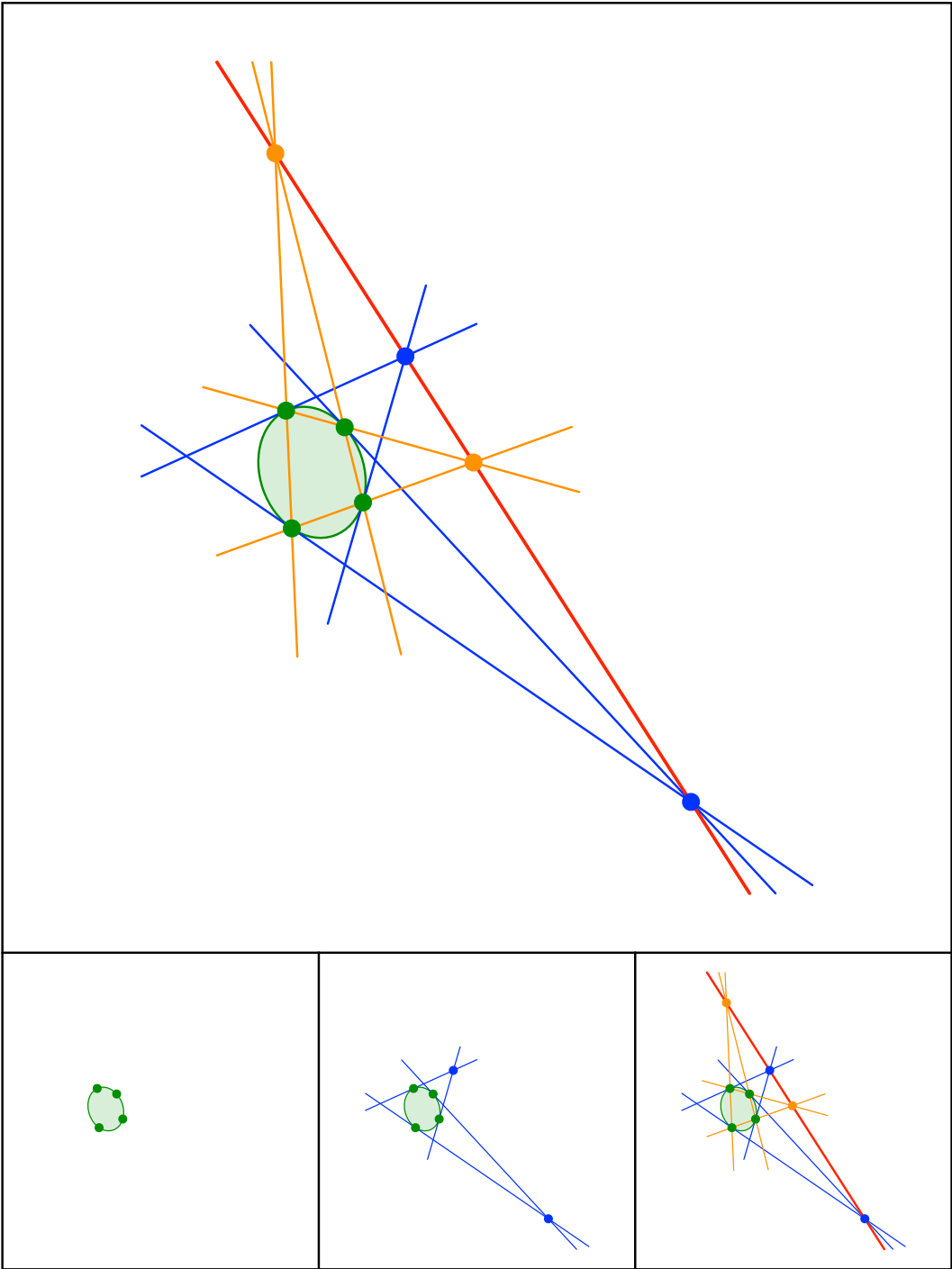


Satz von Newton im Tangentenviereck. (vgl. F. G.-M. 1920, S. 768)

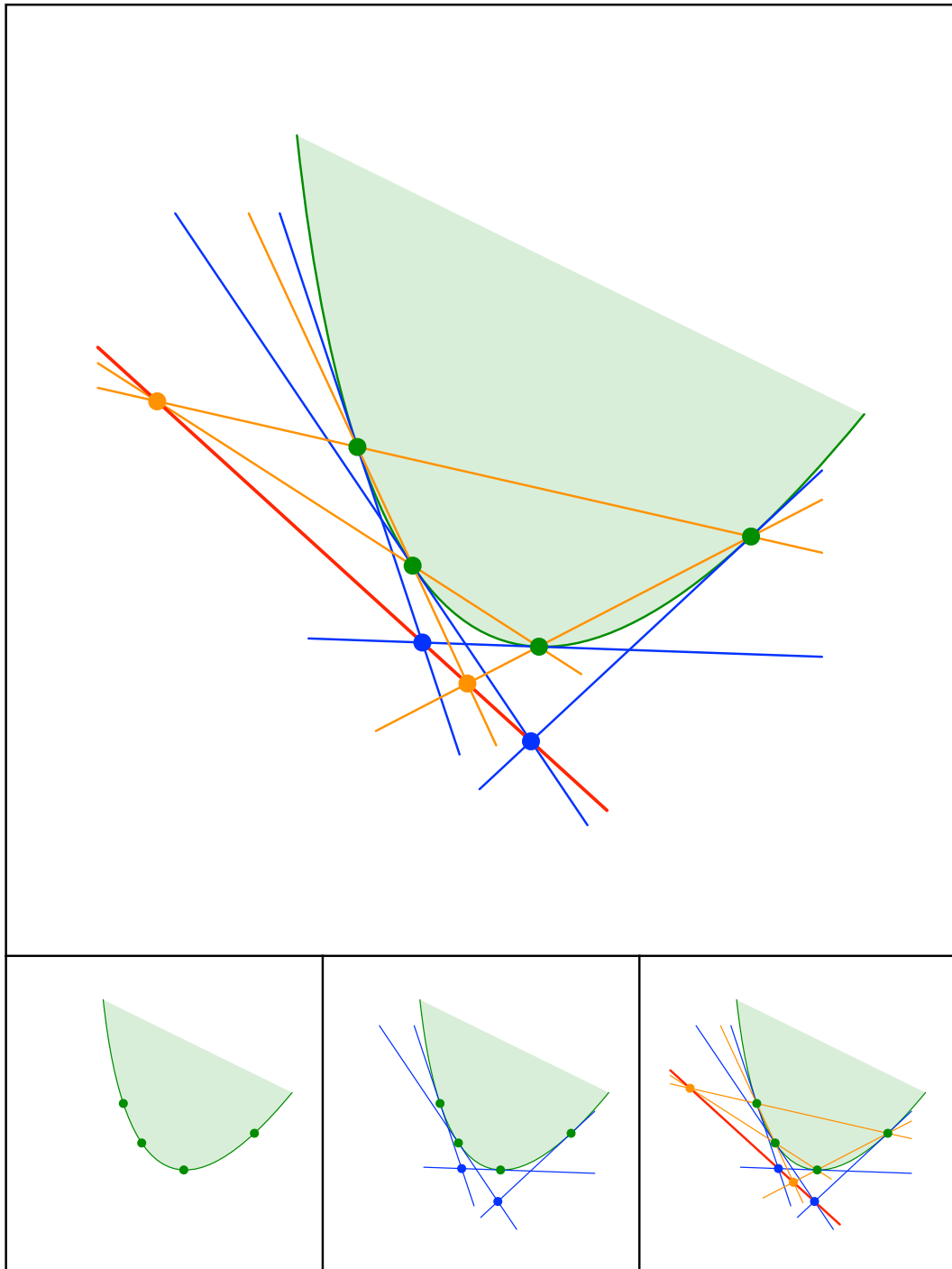
Schlussgerade 103



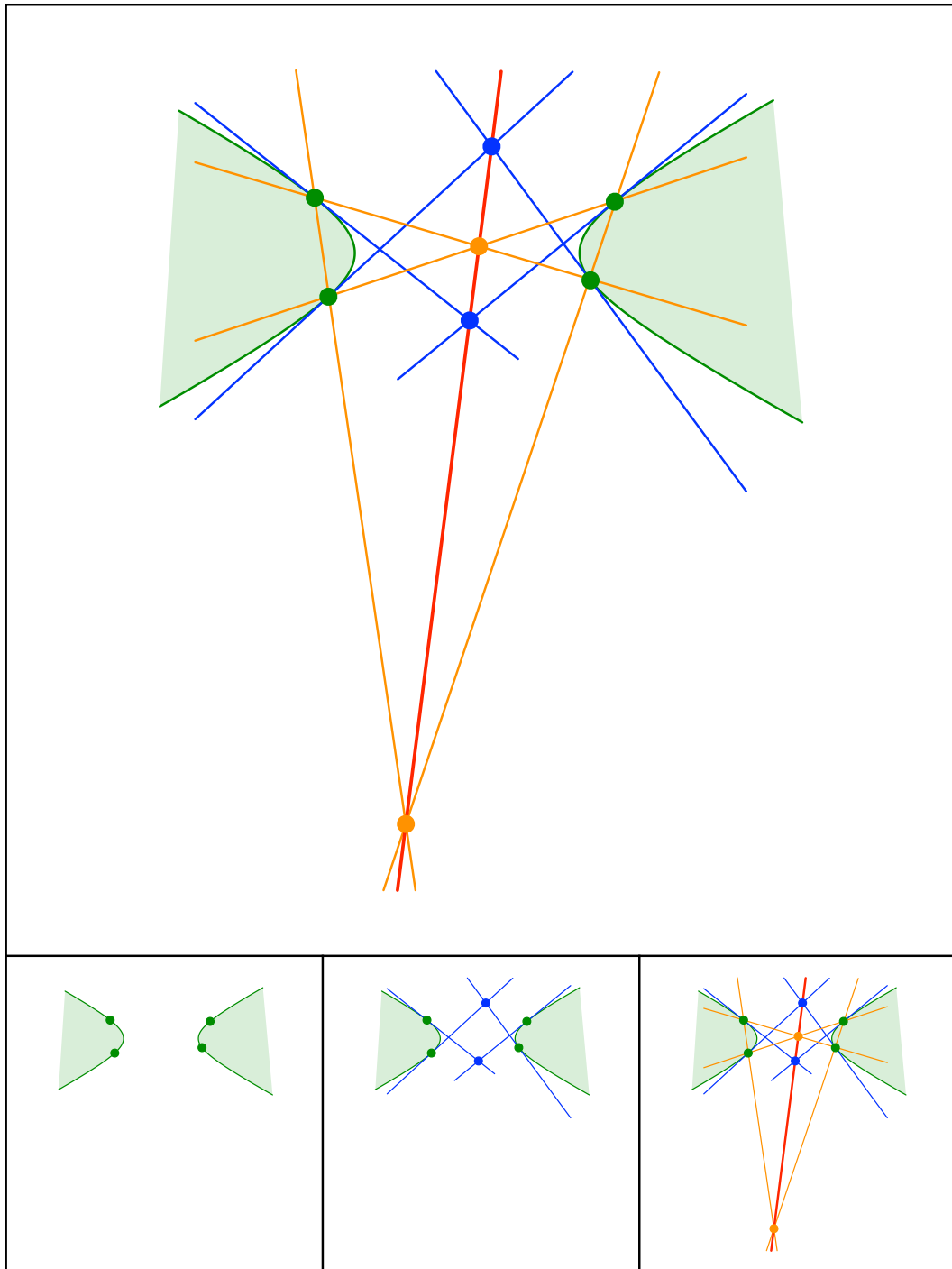
Schlussgerade 104



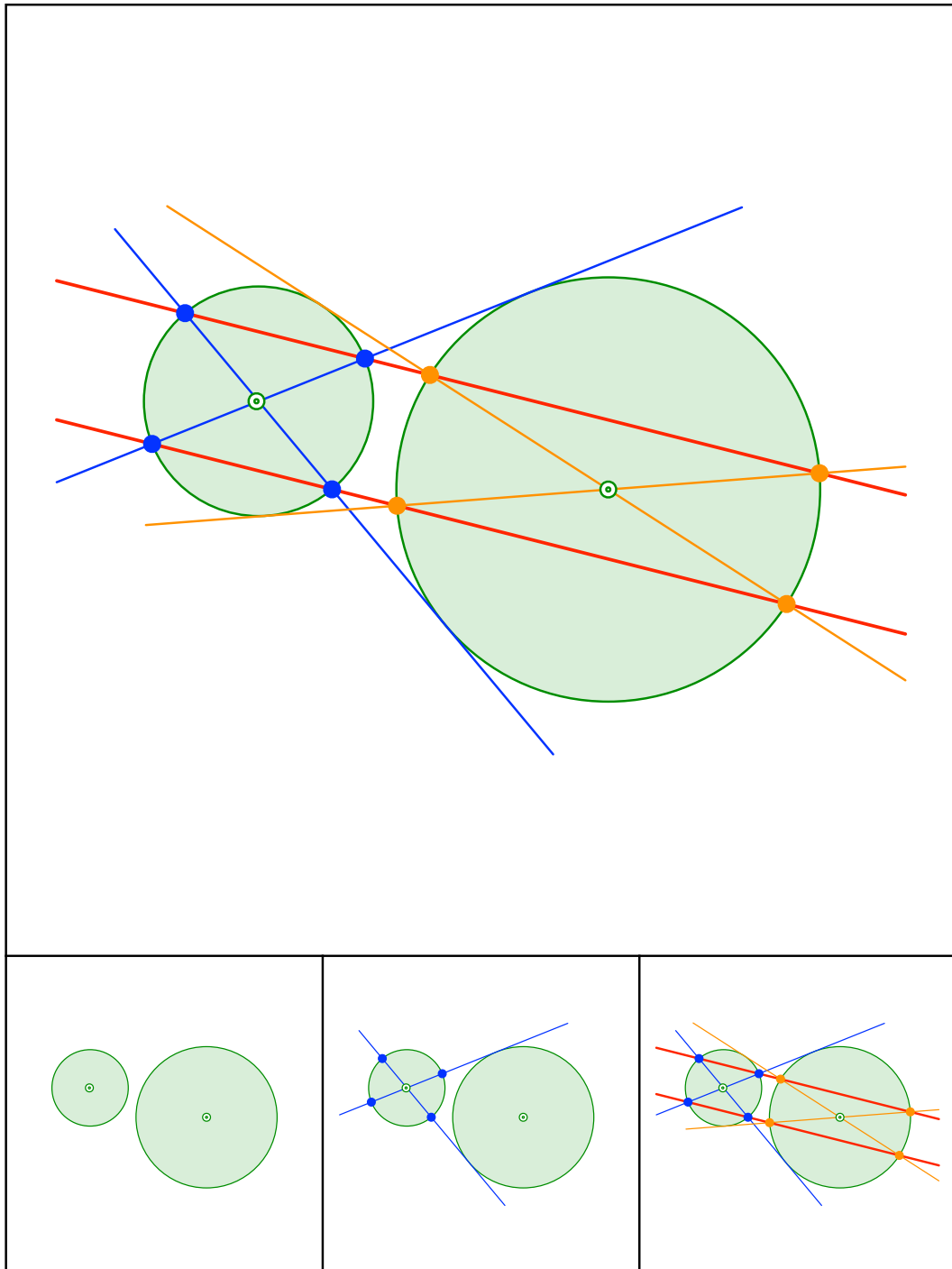
Schlussgerade 105



Schlussgerade 106

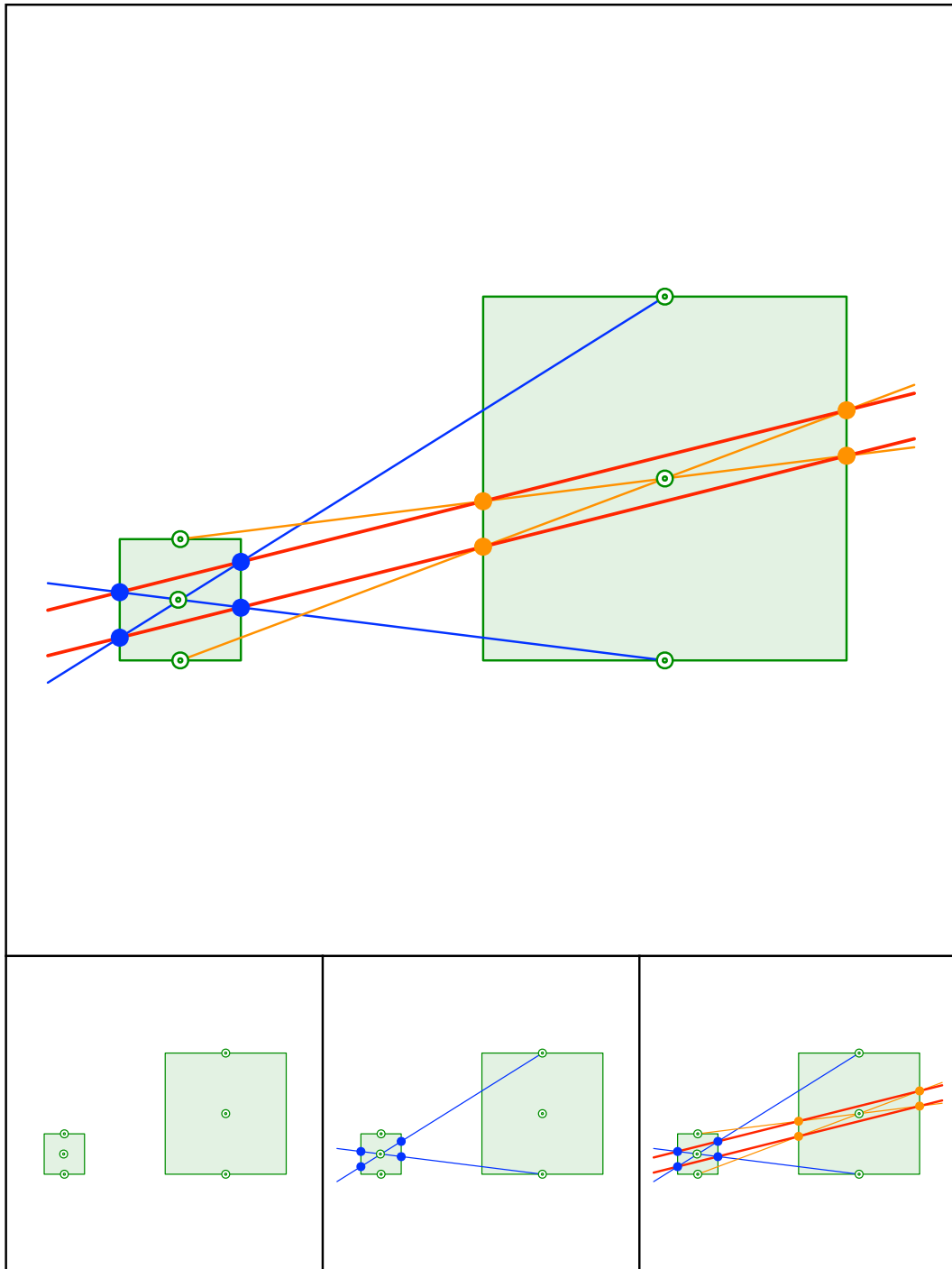


Schlussgerade 107



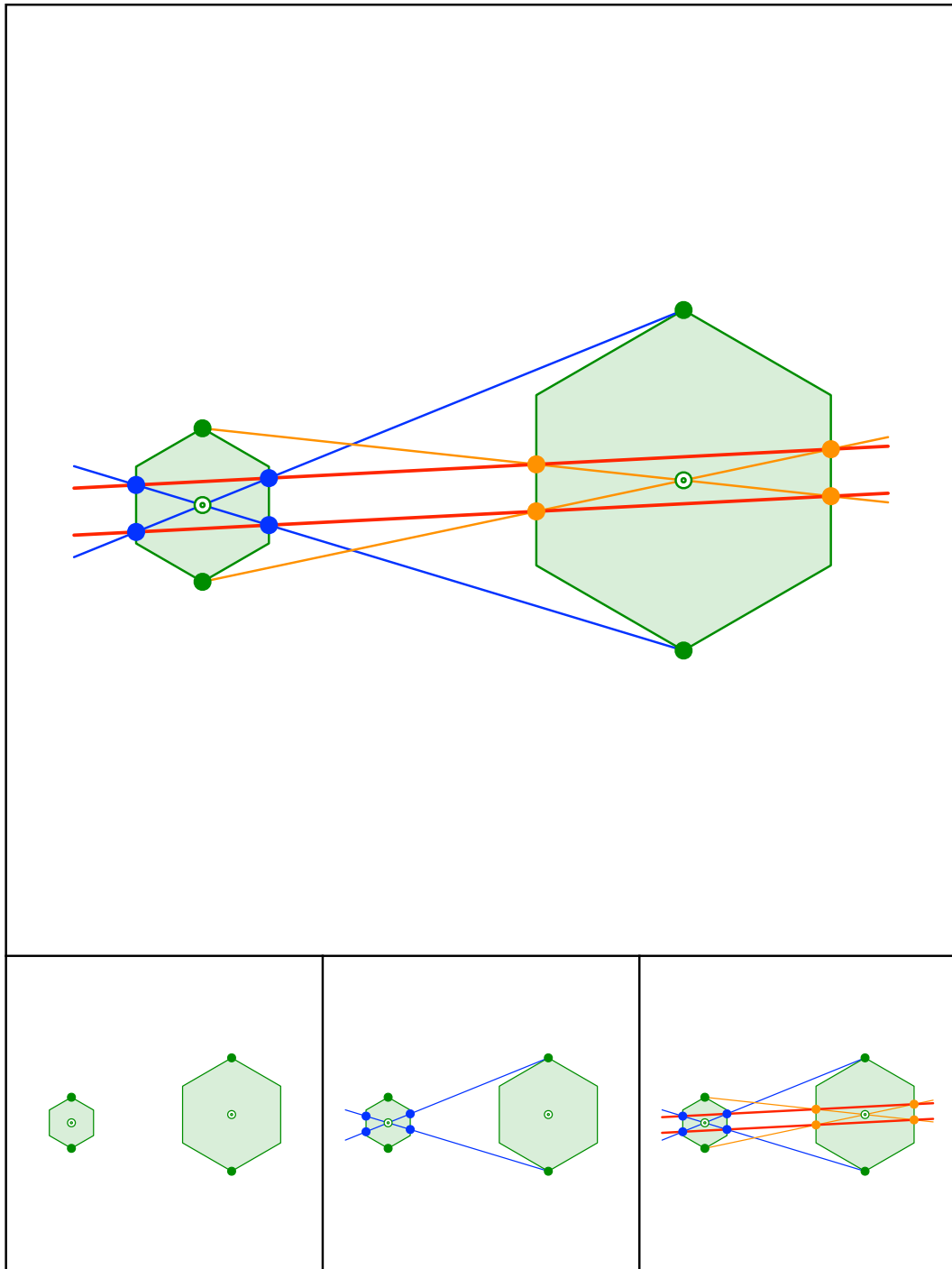
Idee und Anregung: H. M.-S., V.

Schlussgerade 108

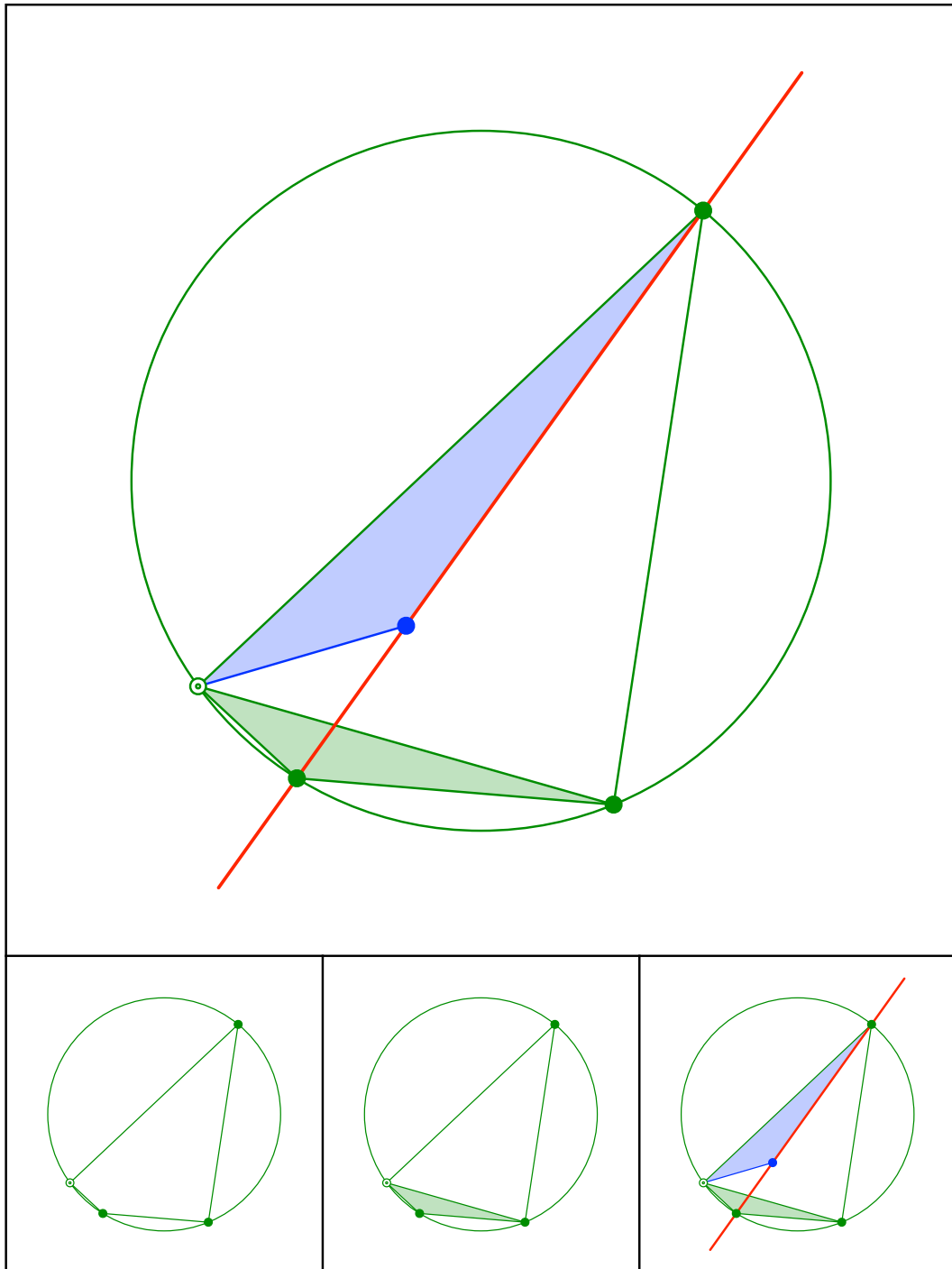


Idee und Anregung: H. M.-S., V.

Schlussgerade 109

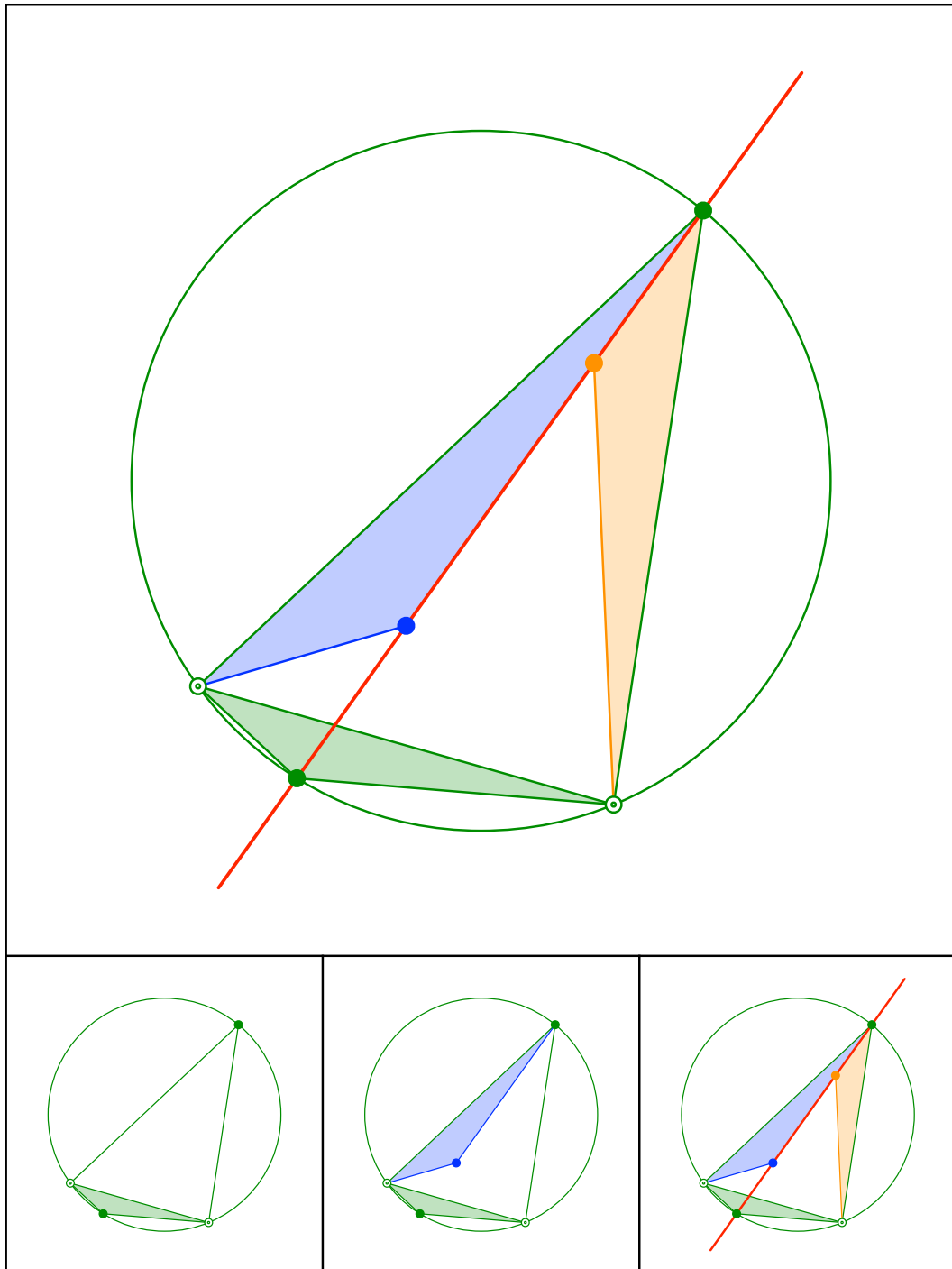


Schlussgerade 110



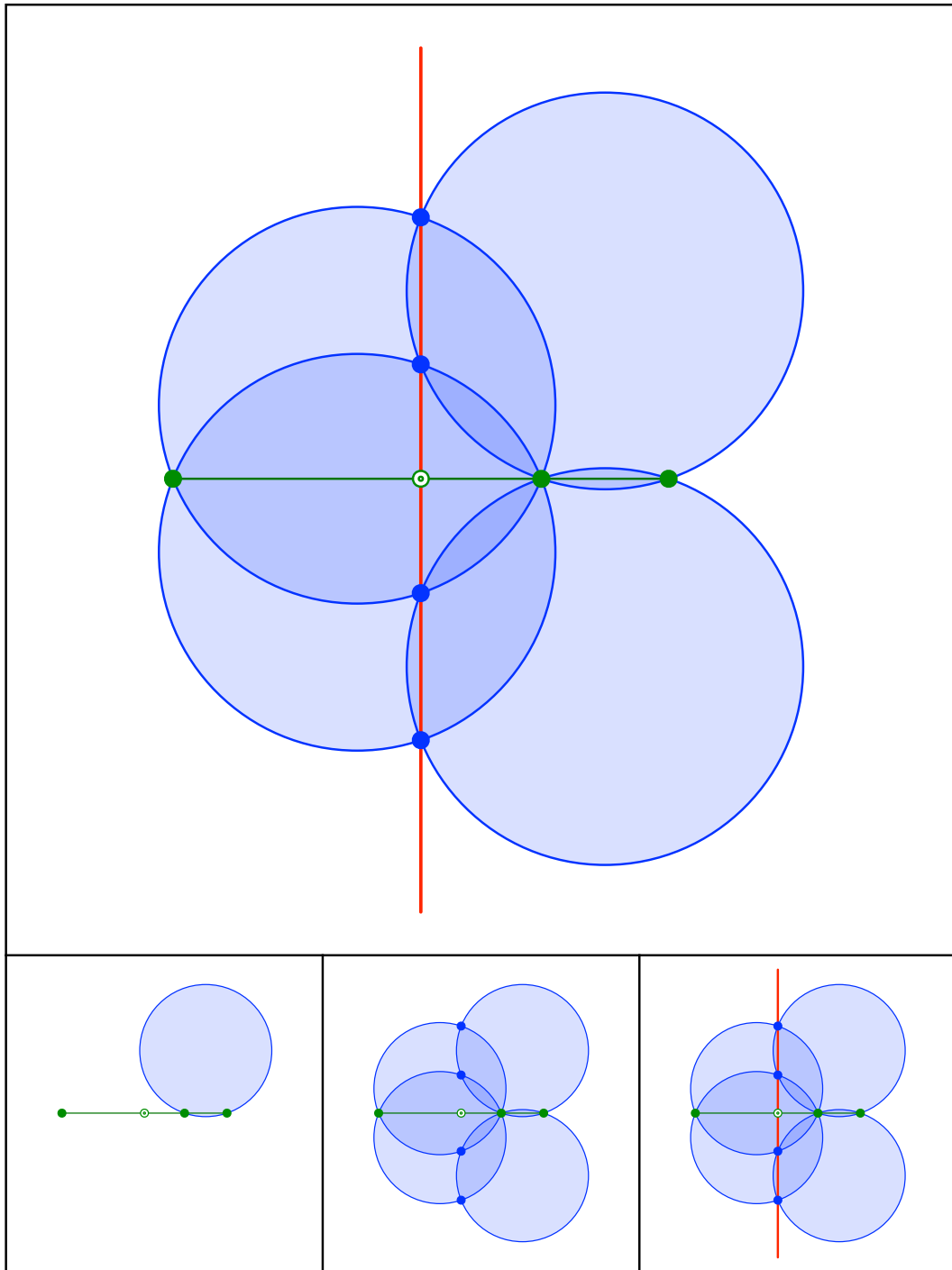
Ähnliche Dreiecke

Schlussgerade 111



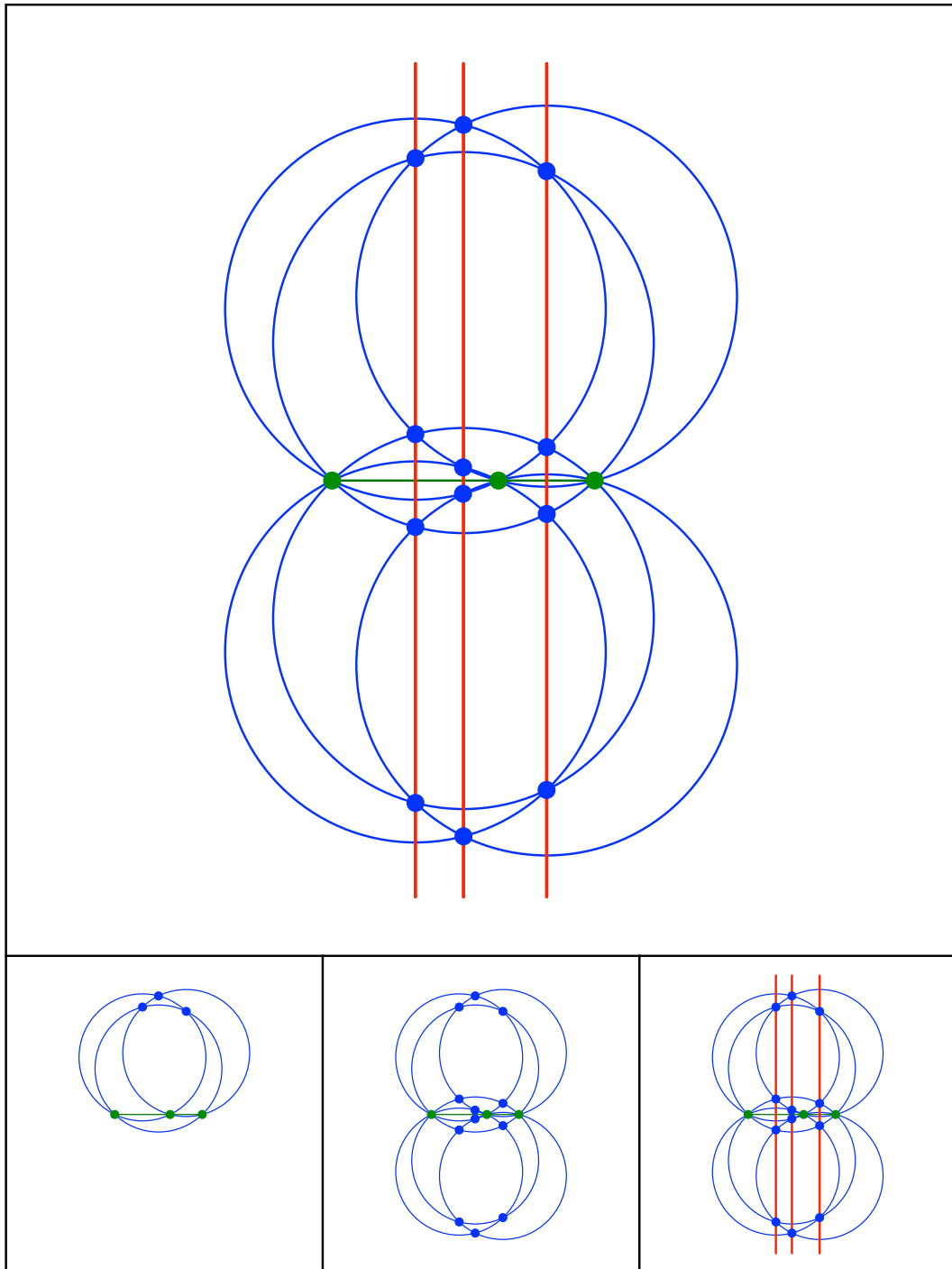
Ähnliche Dreiecke

Schlussgerade 112

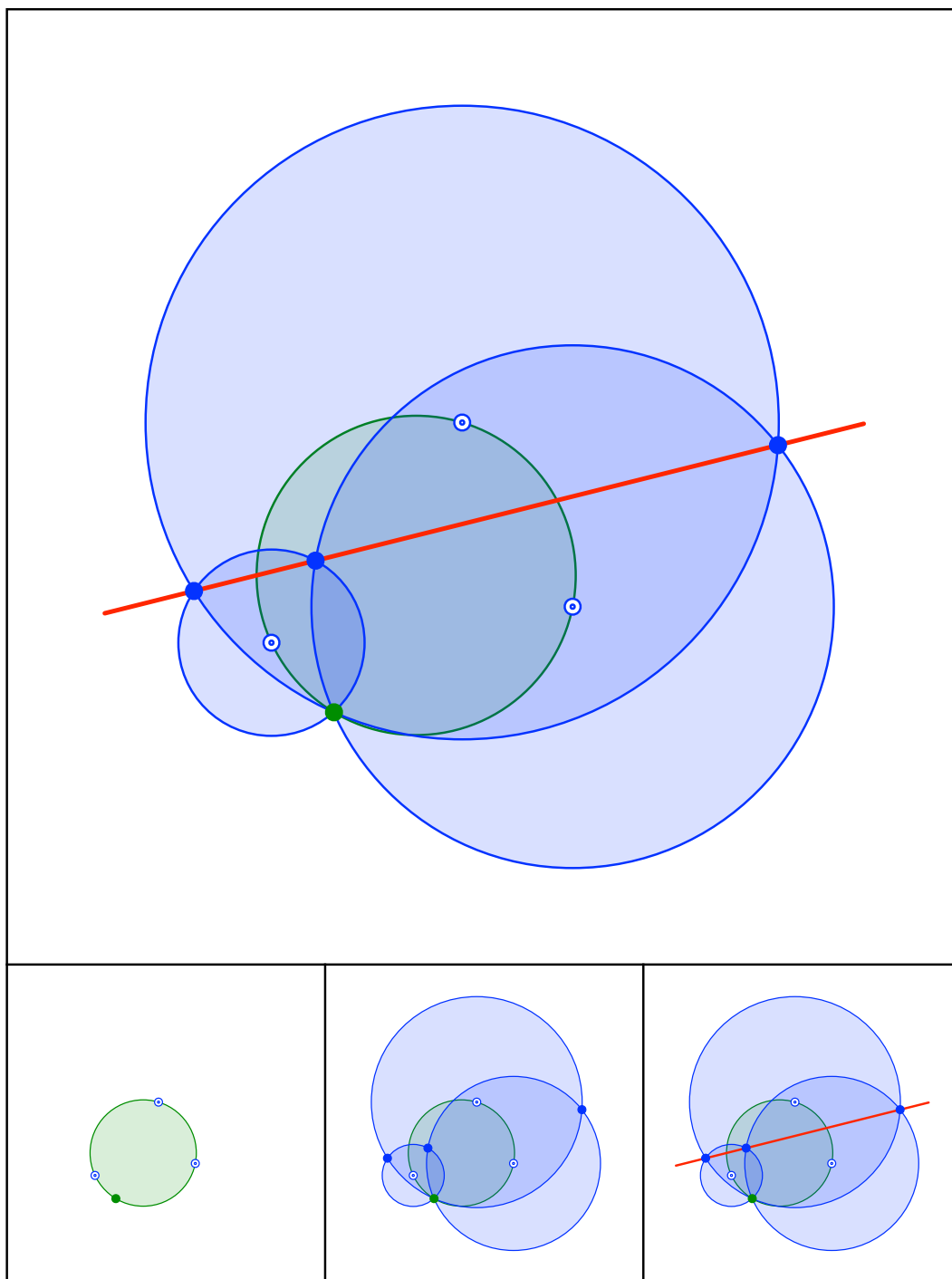


Georg Wilhelm Scheffers

Schlussgerade 113

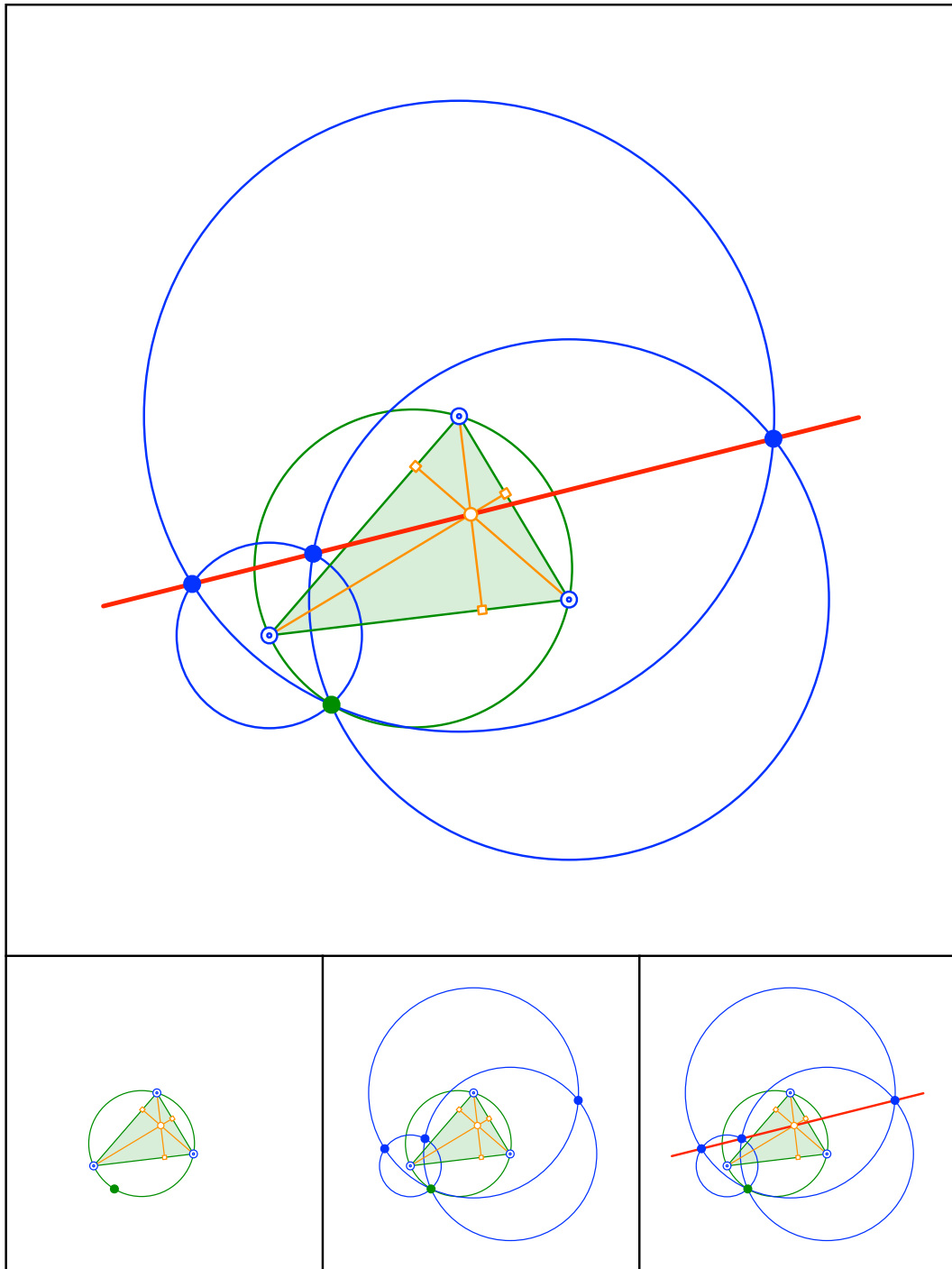


Schlussgerade 114

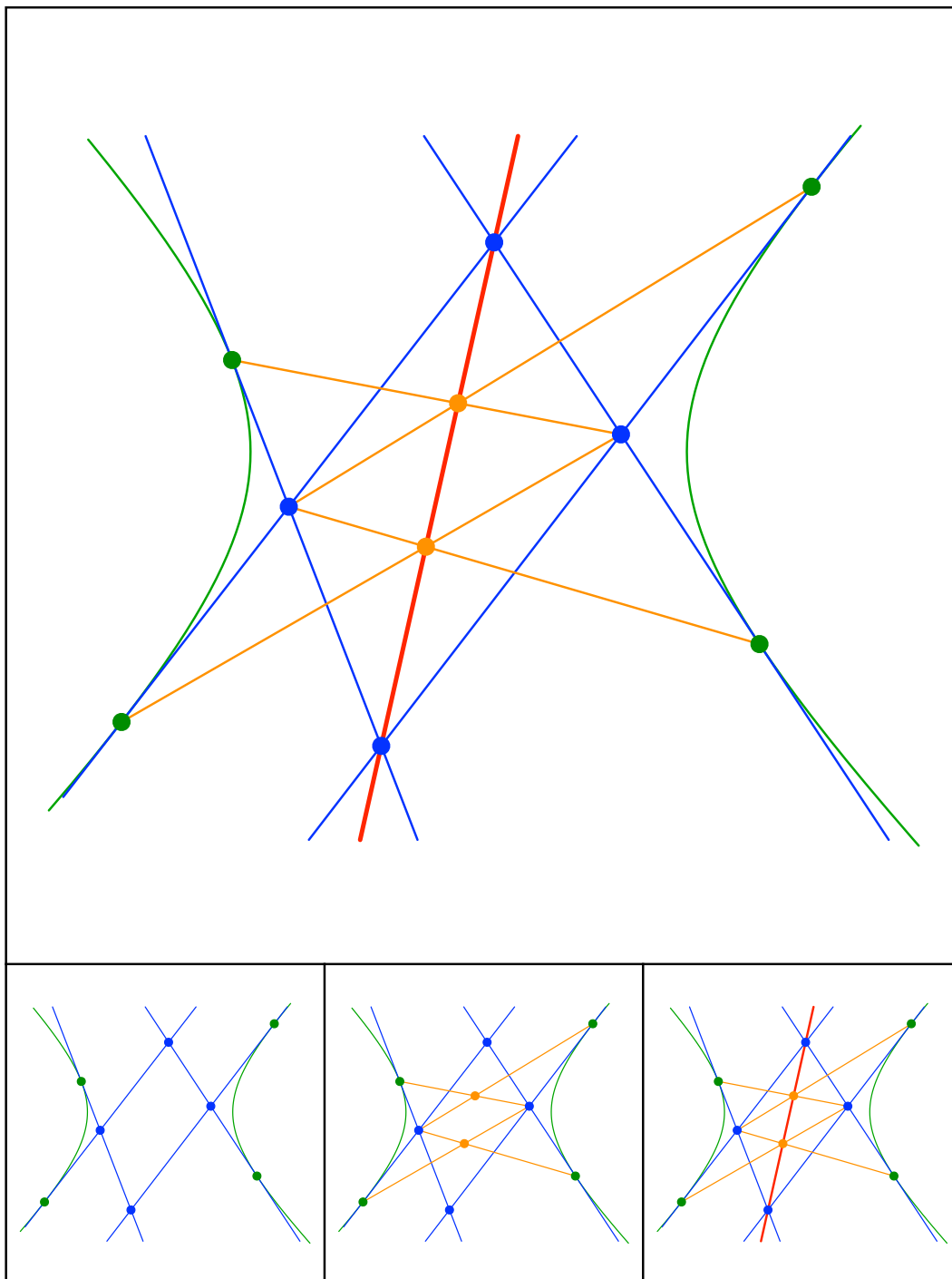


Gruß von Wallace

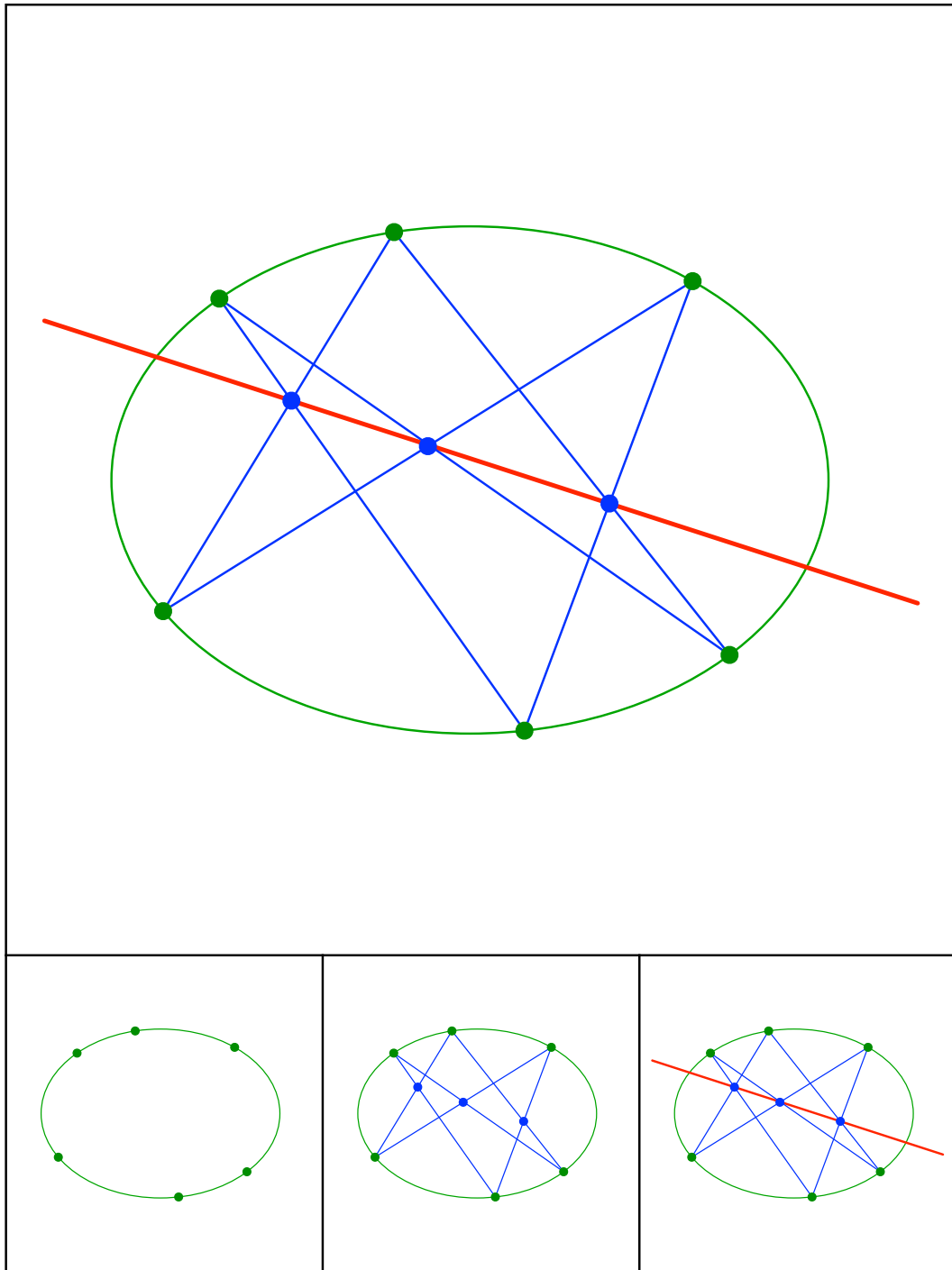
Schlussgerade 115



Schlussgerade 116

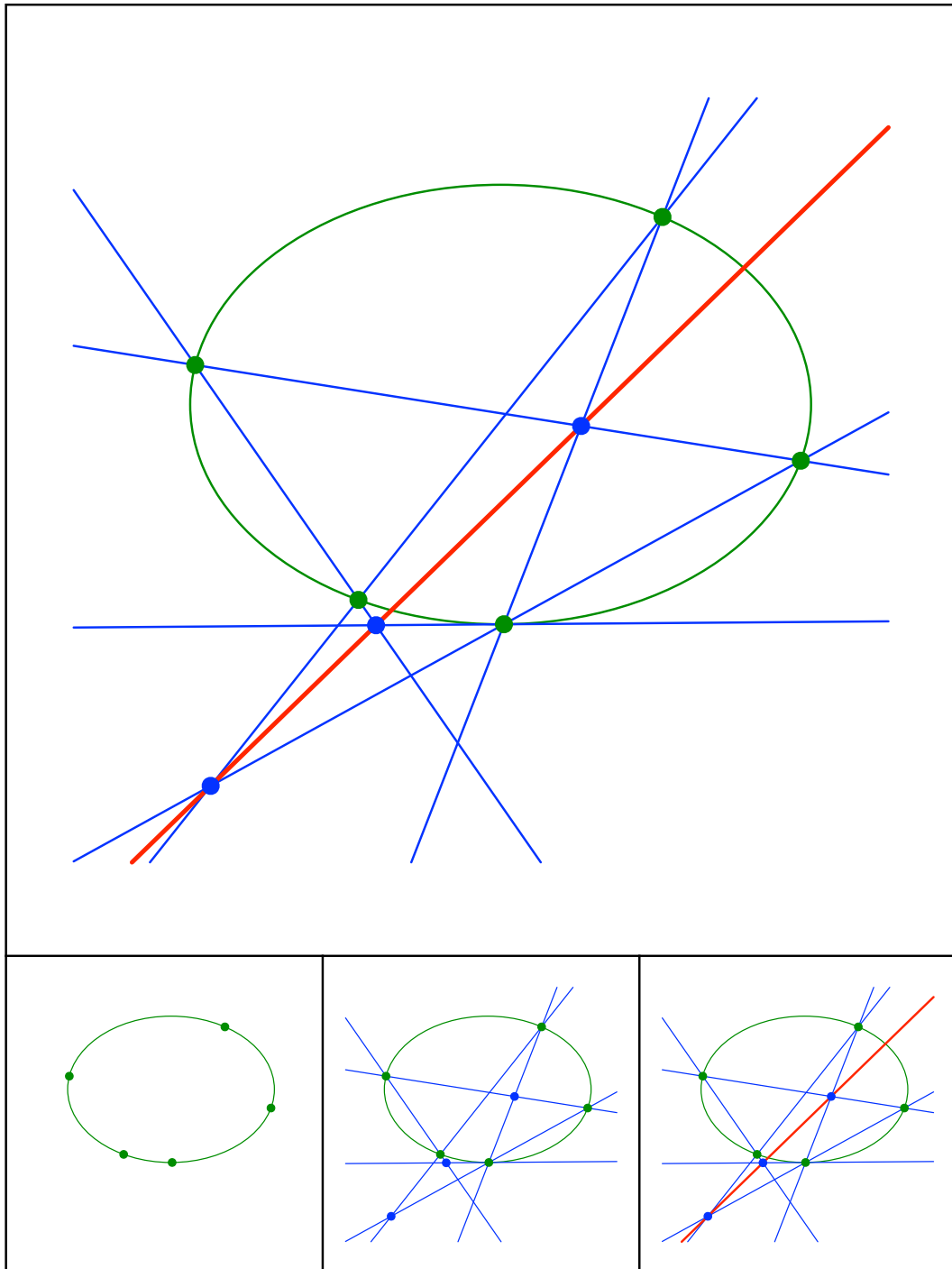


Schlussgerade 117



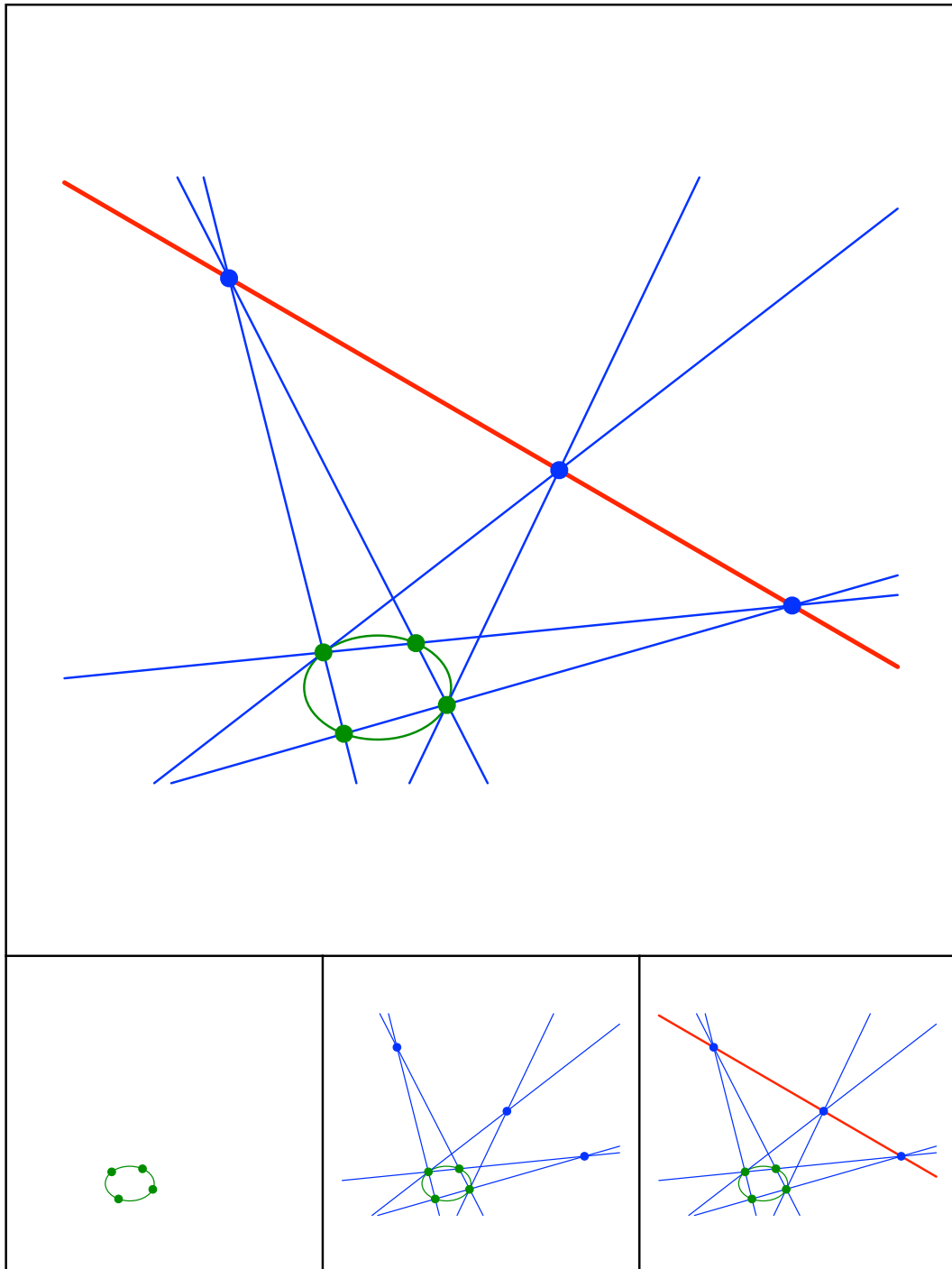
Pappos-Pascal

Schlussgerade 118



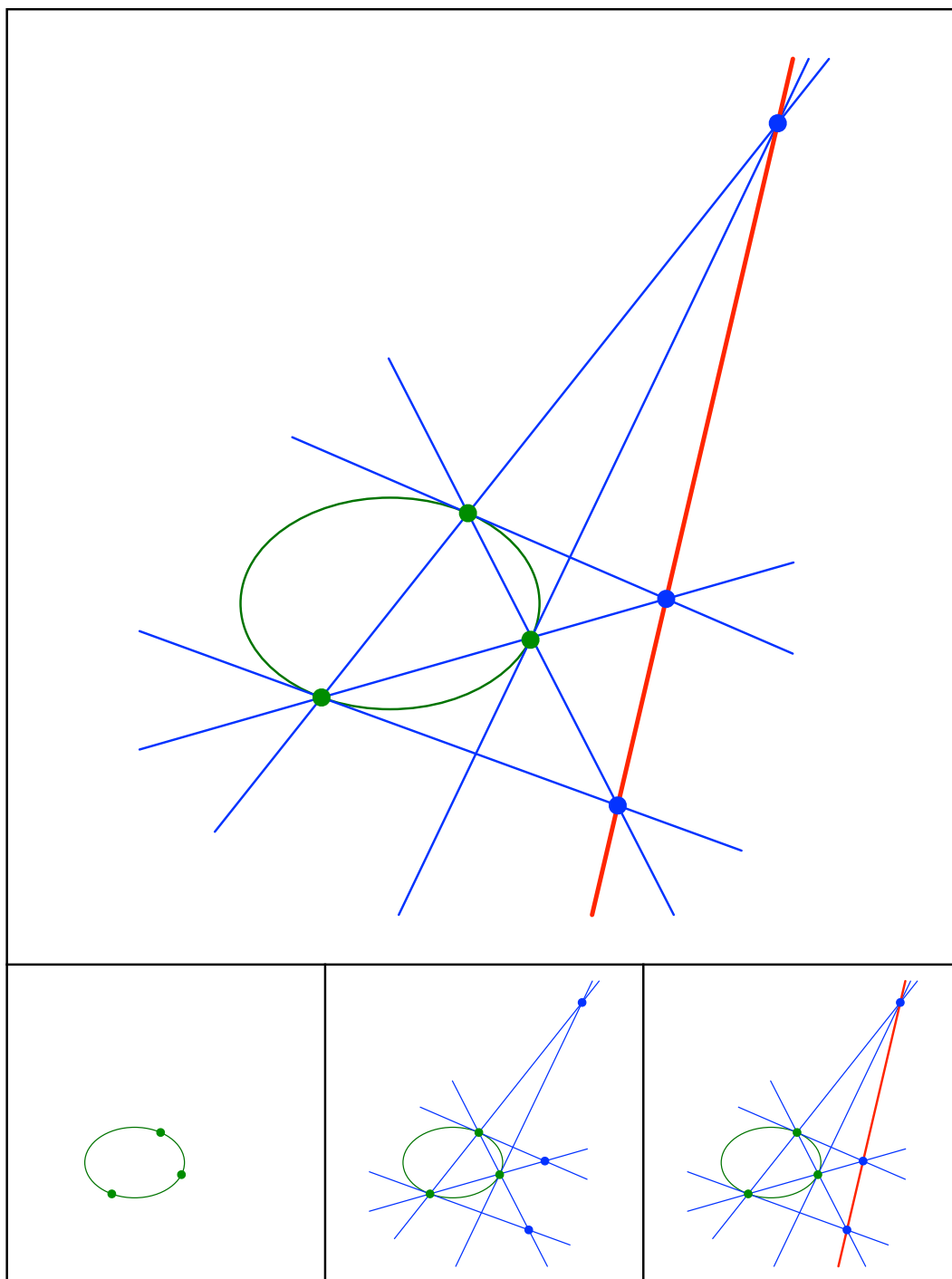
Sonderfall Pappos-Pascal

Schlussgerade 119



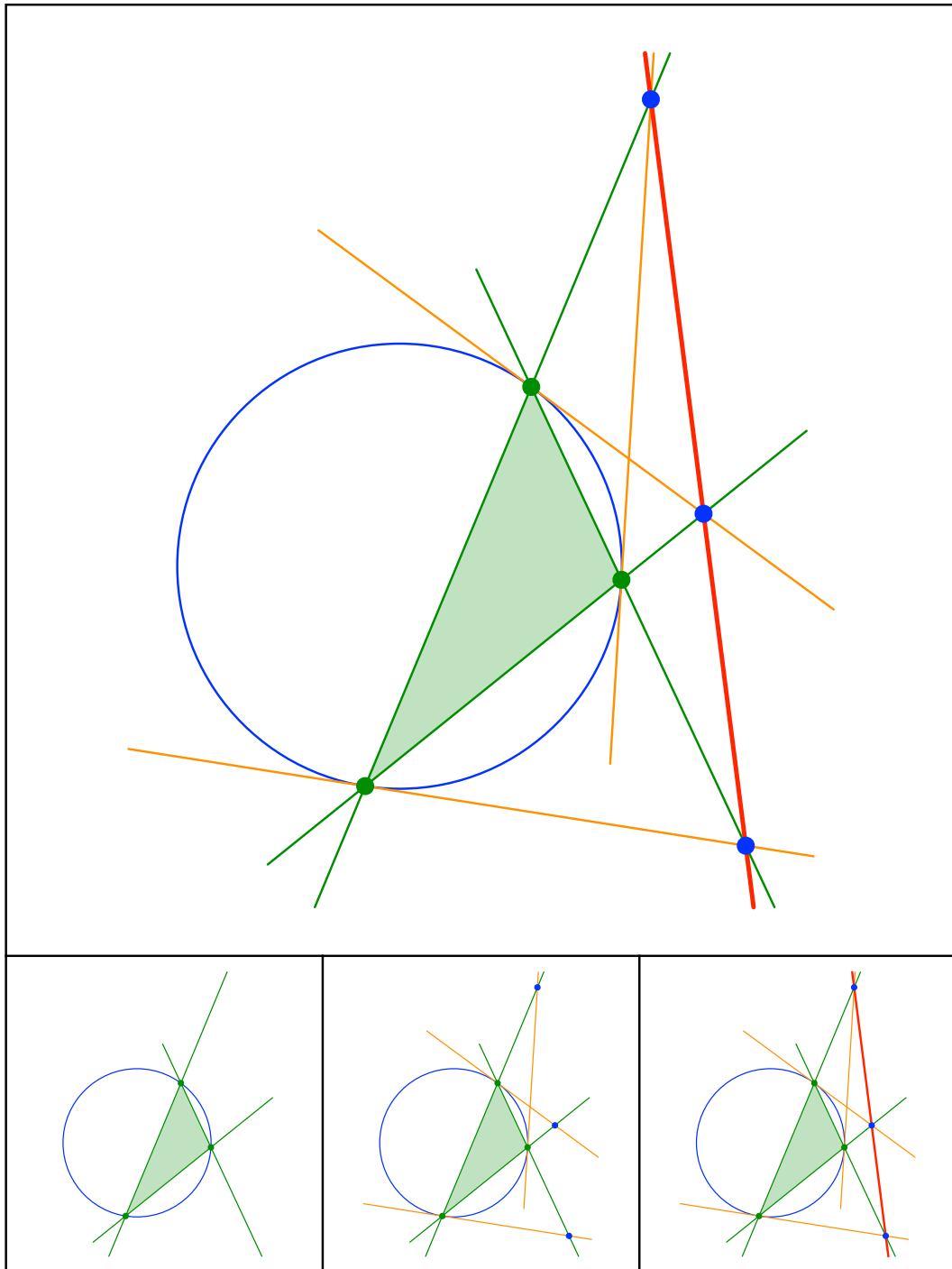
Sonderfall Pappos-Pascal

Schlussgerade 120



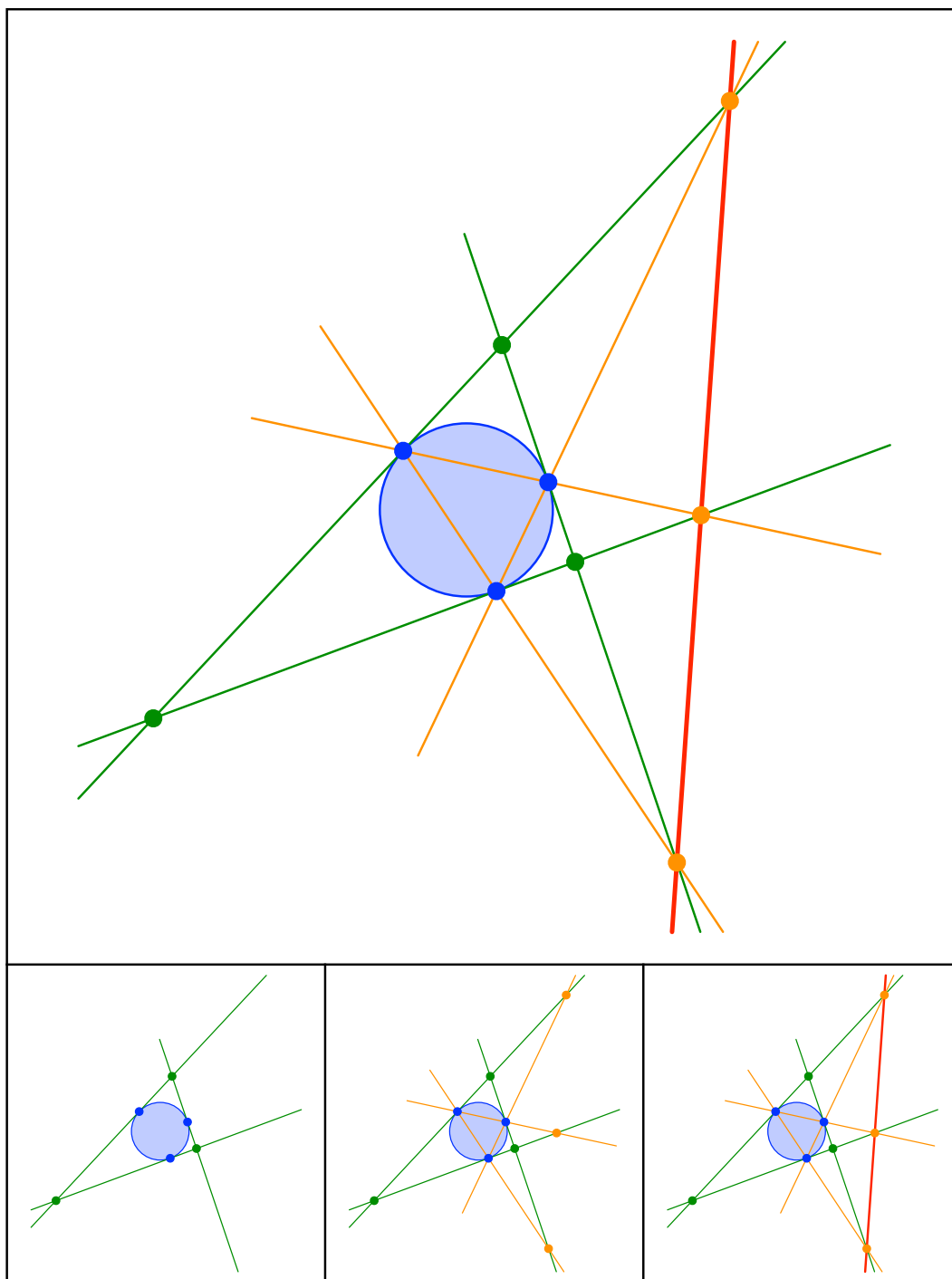
Sonderfall Pappos-Pascal

Schlussgerade 121



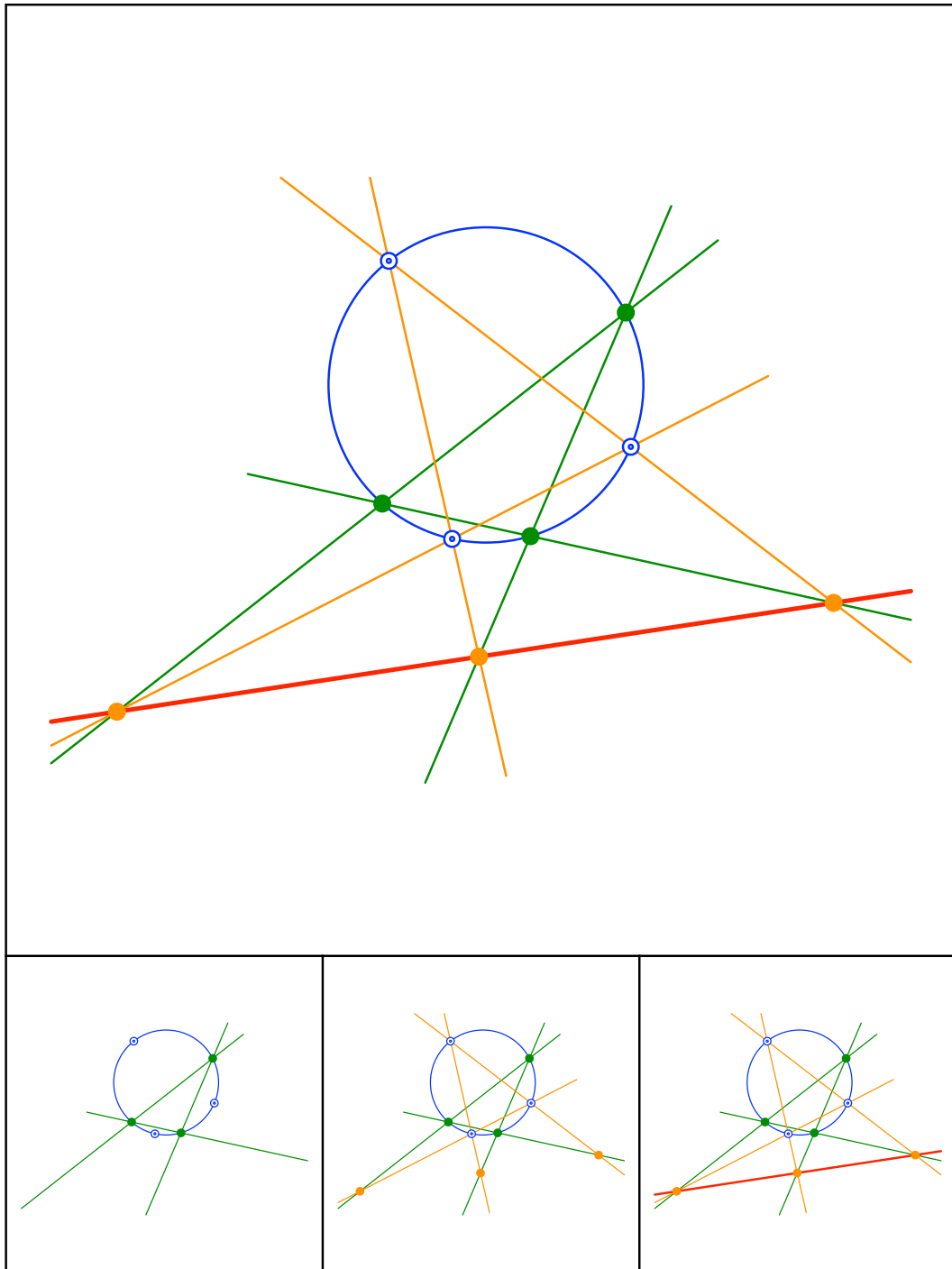
Sonderfall Pappos-Pascal

Schlussgerade 122



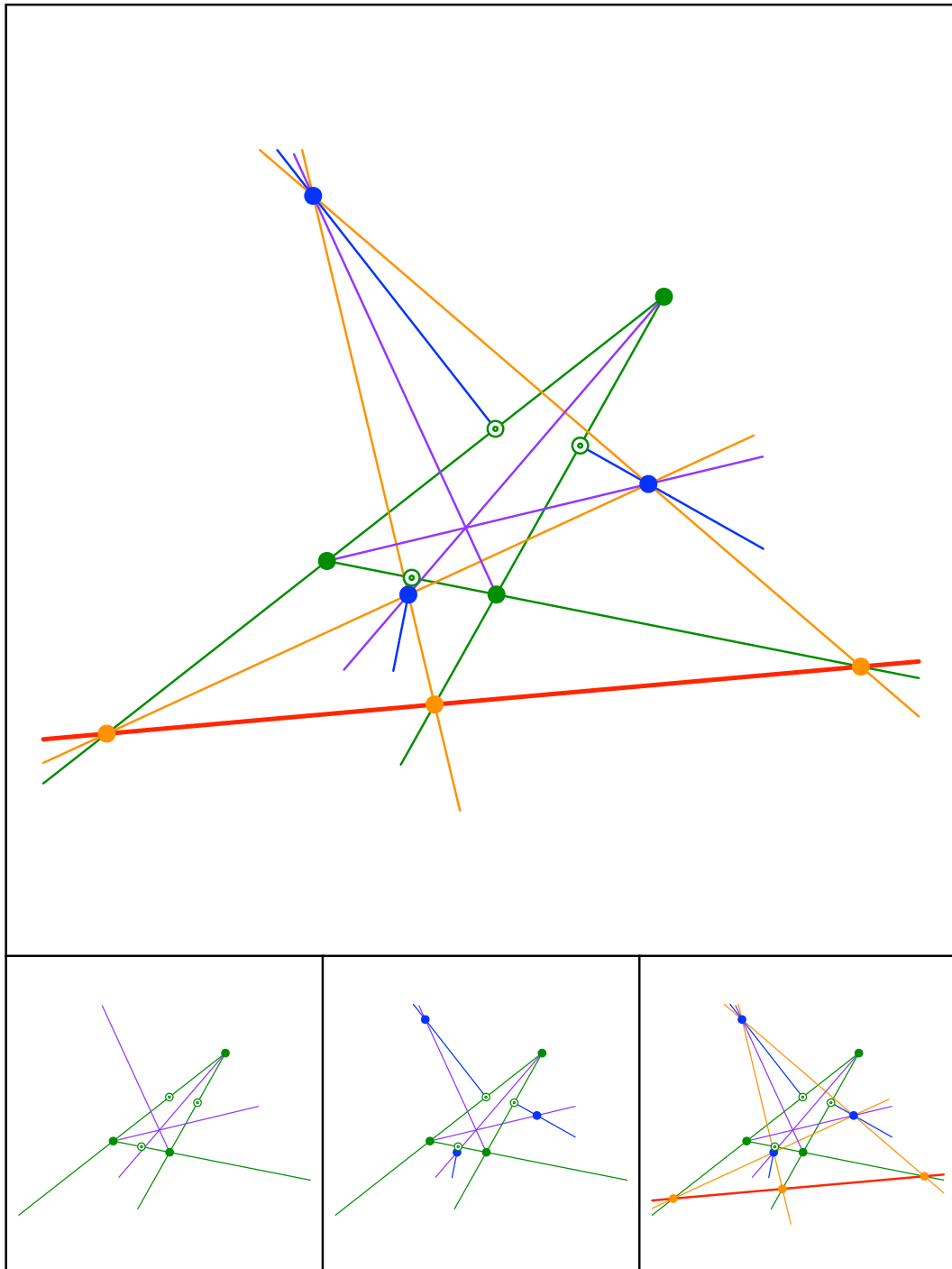
Sonderfall Pappus-Pascal

Schlussgerade 123



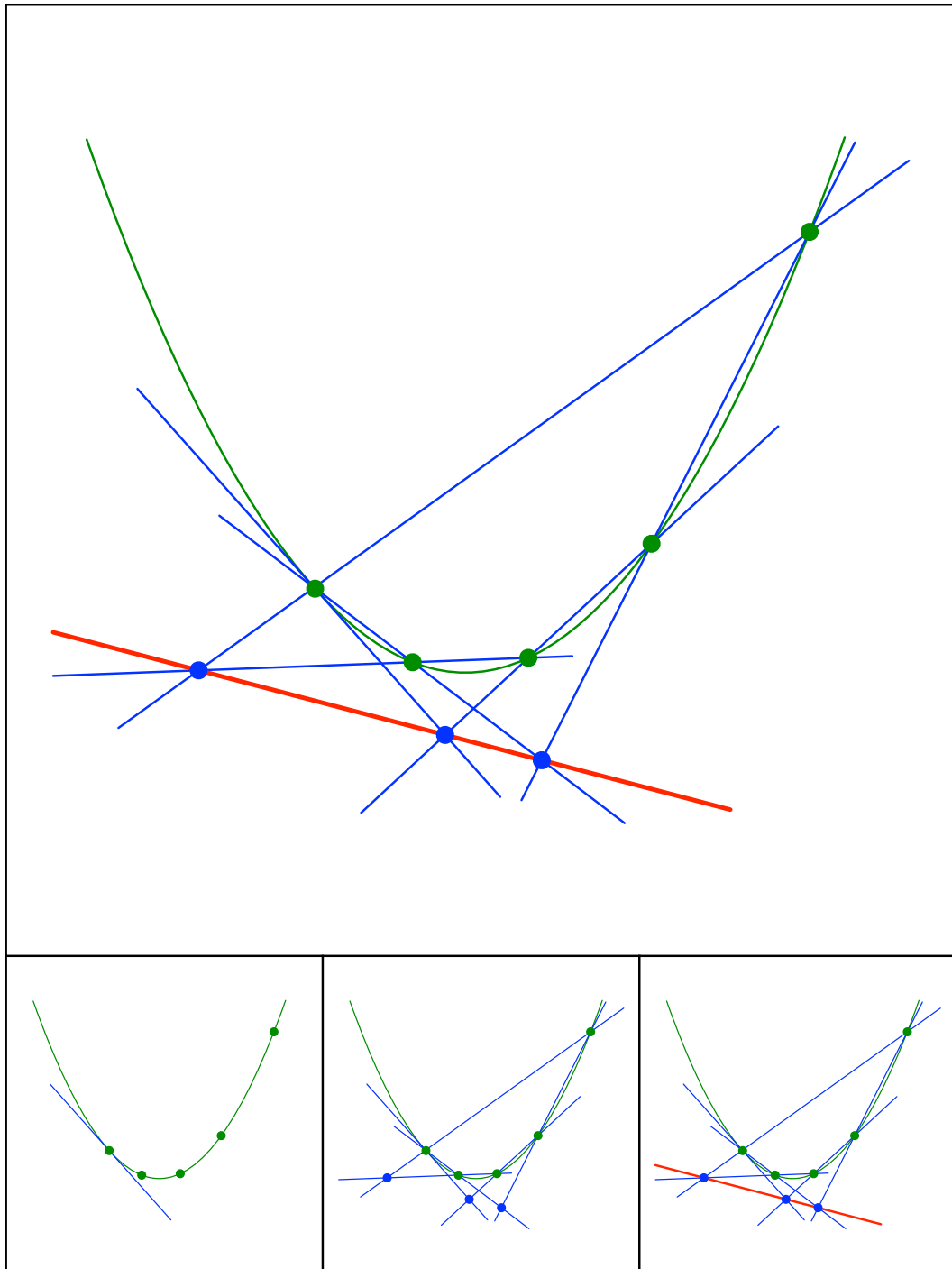
Bogenmitten

Schlussgerade 124



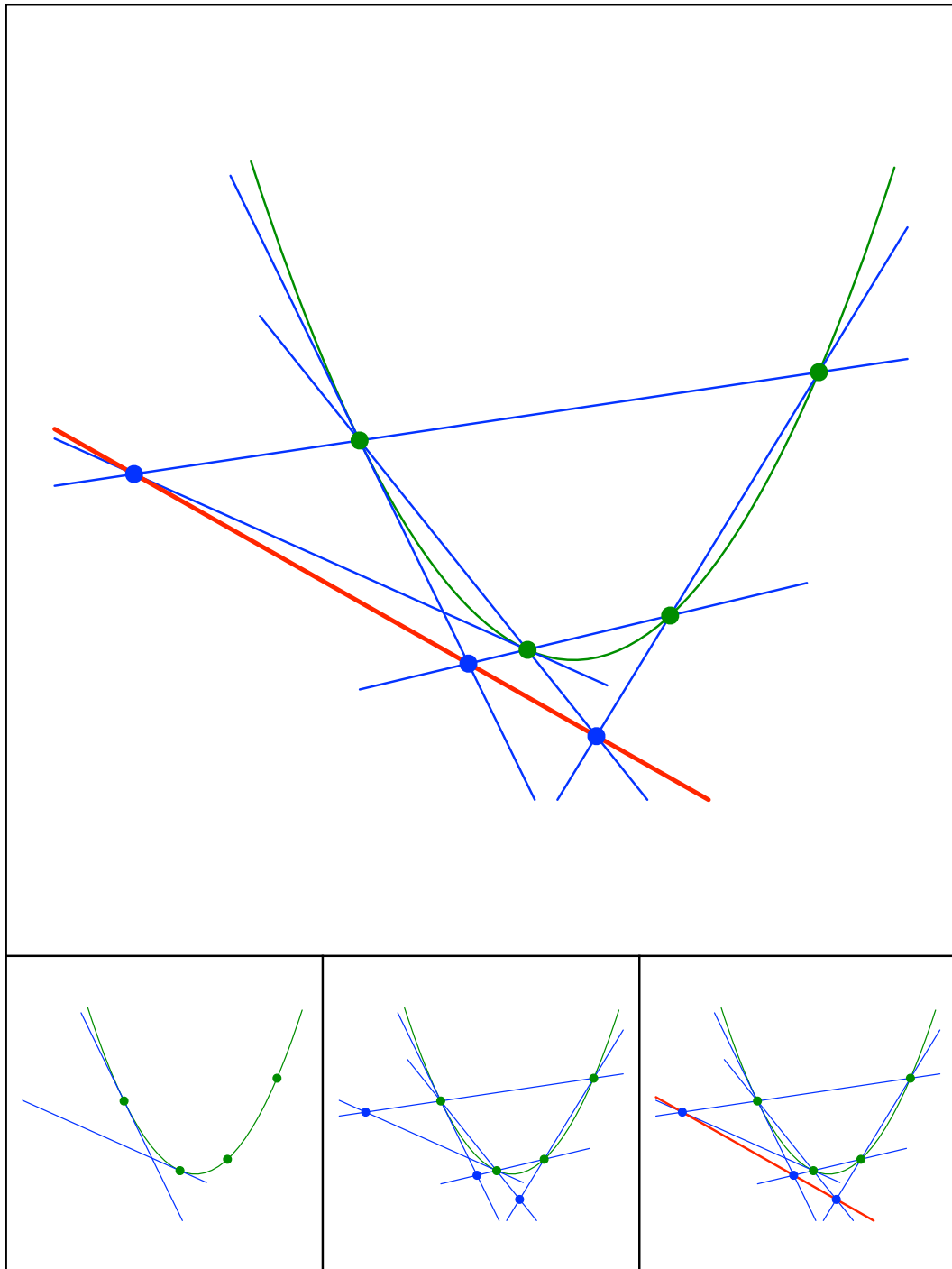
Winkelhalbierende

Schlussgerade 125



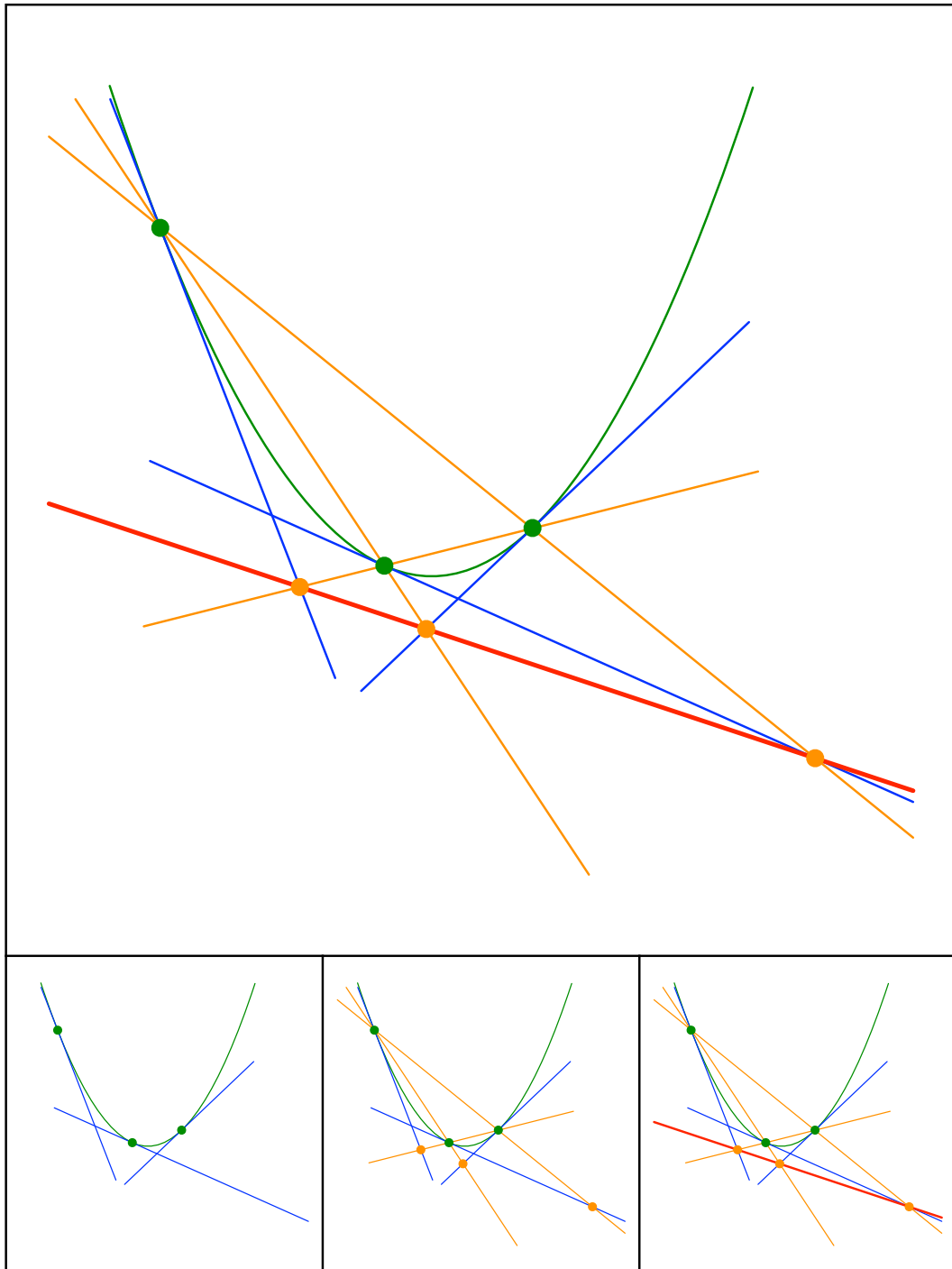
Pappos-Pascal

Schlussgerade 126



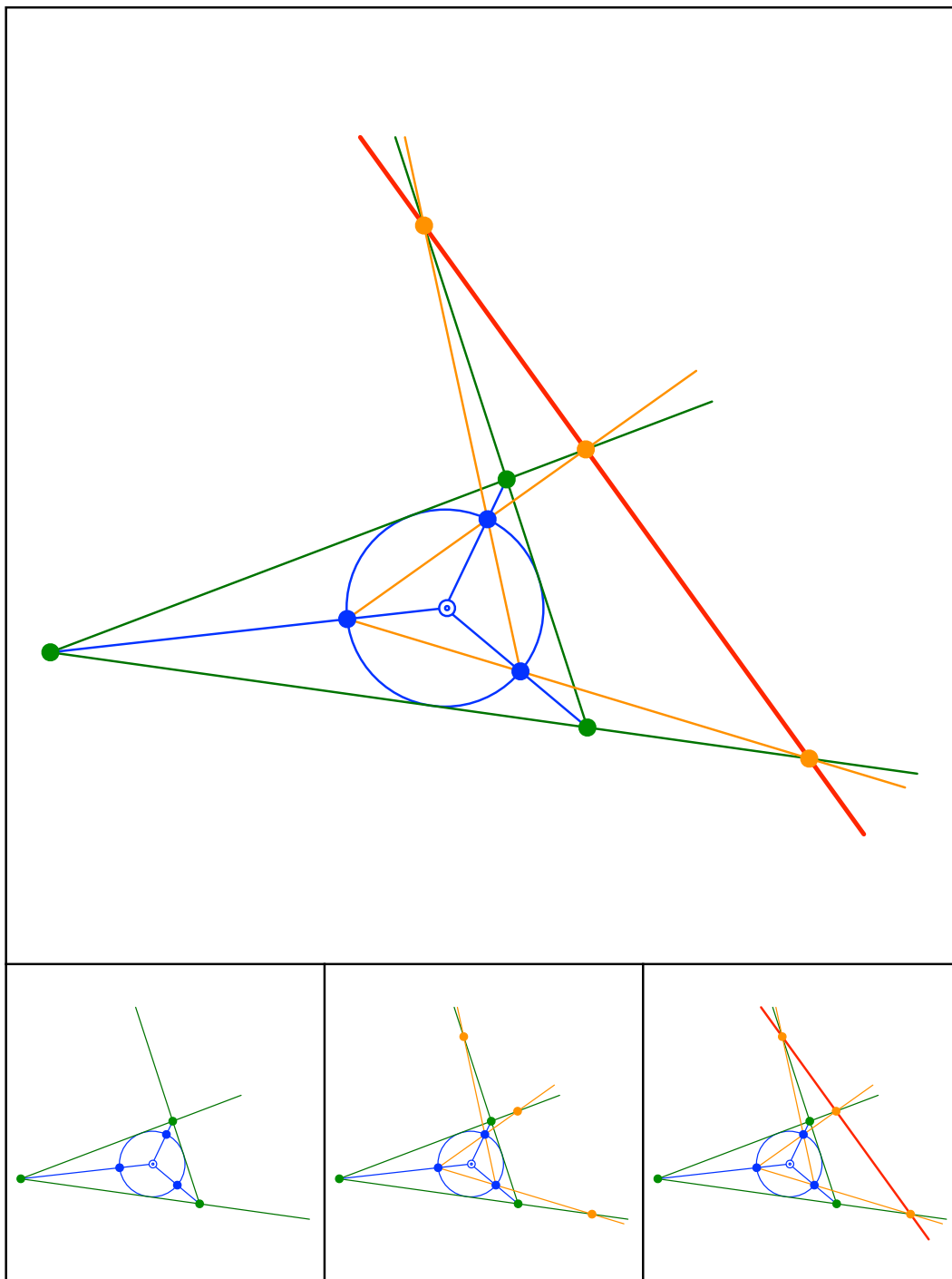
Pappos-Pascal

Schlussgerade 127



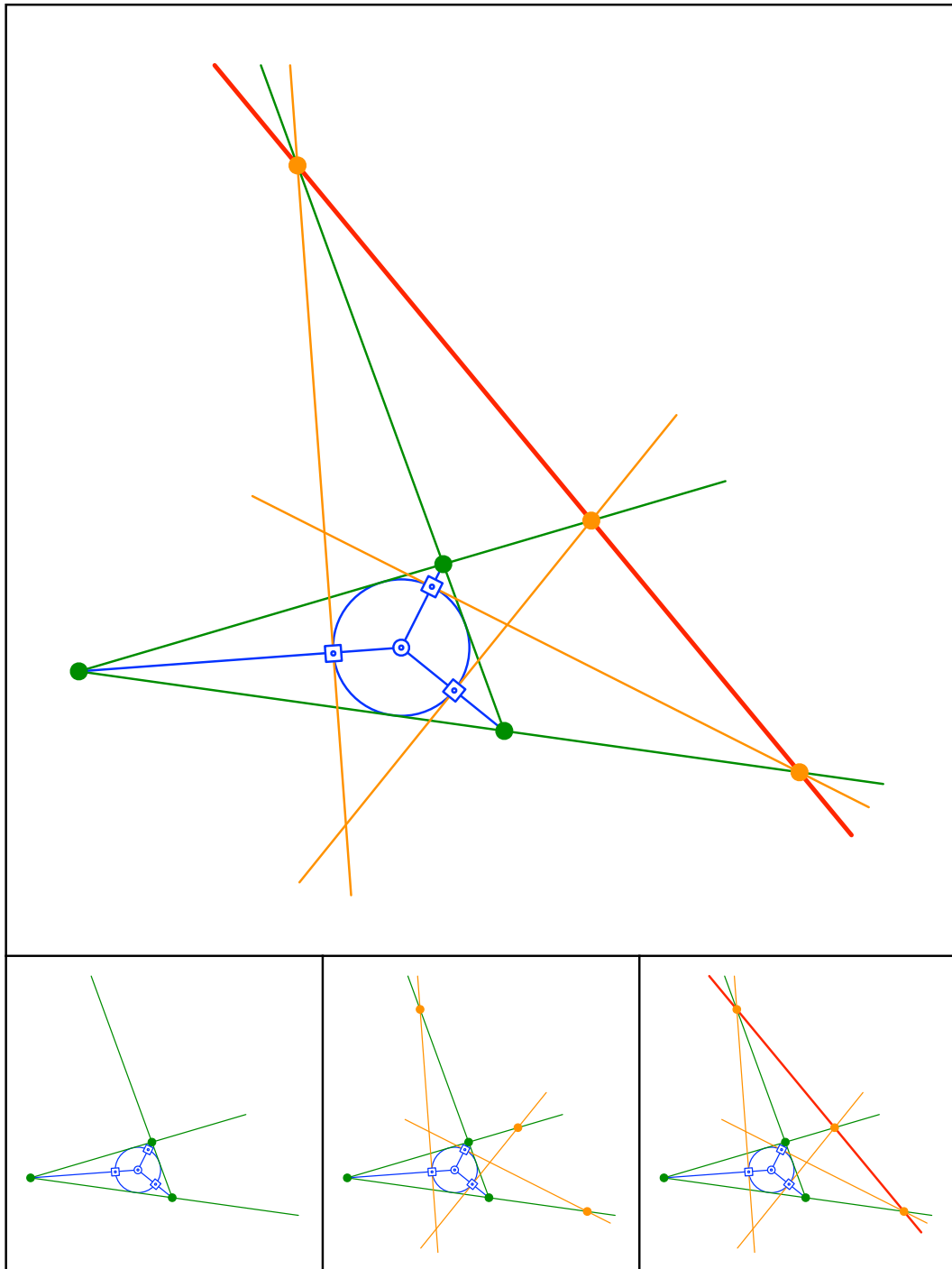
Pappos-Pascal

Schlussgerade 128



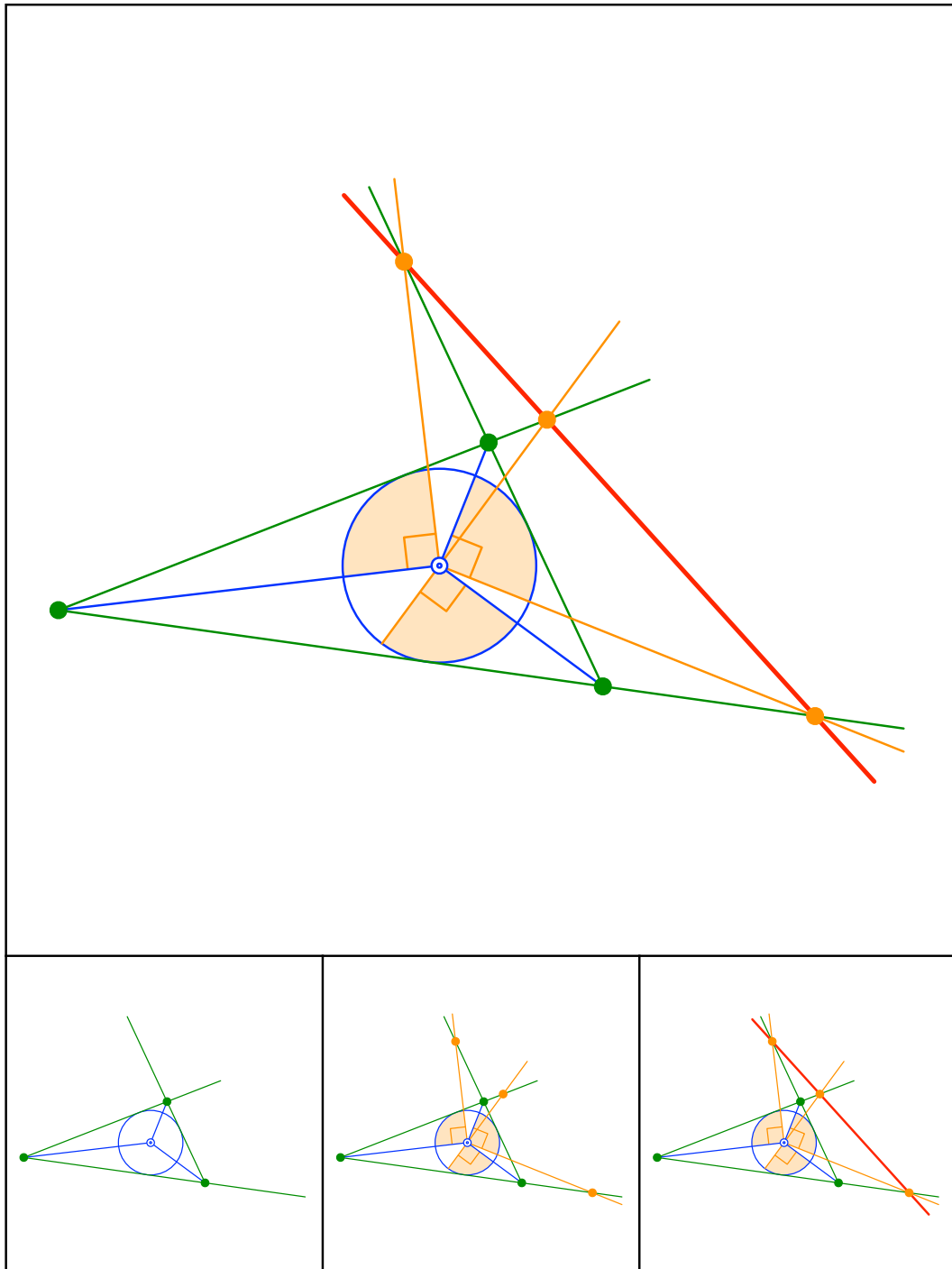
Mit DGS verifiziert

Schlussgerade 129



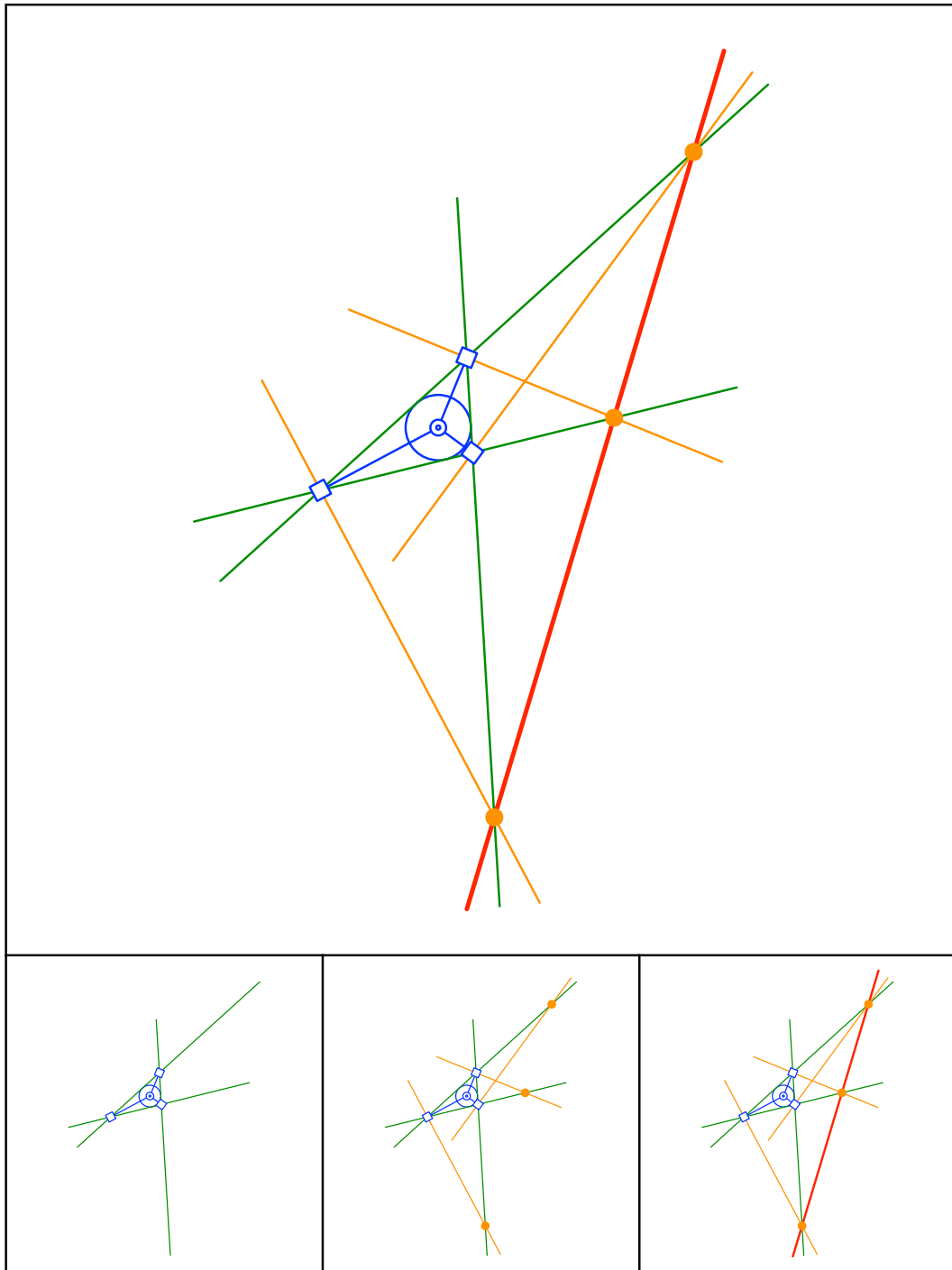
Mit DGS verifiziert

Schlussgerade 130



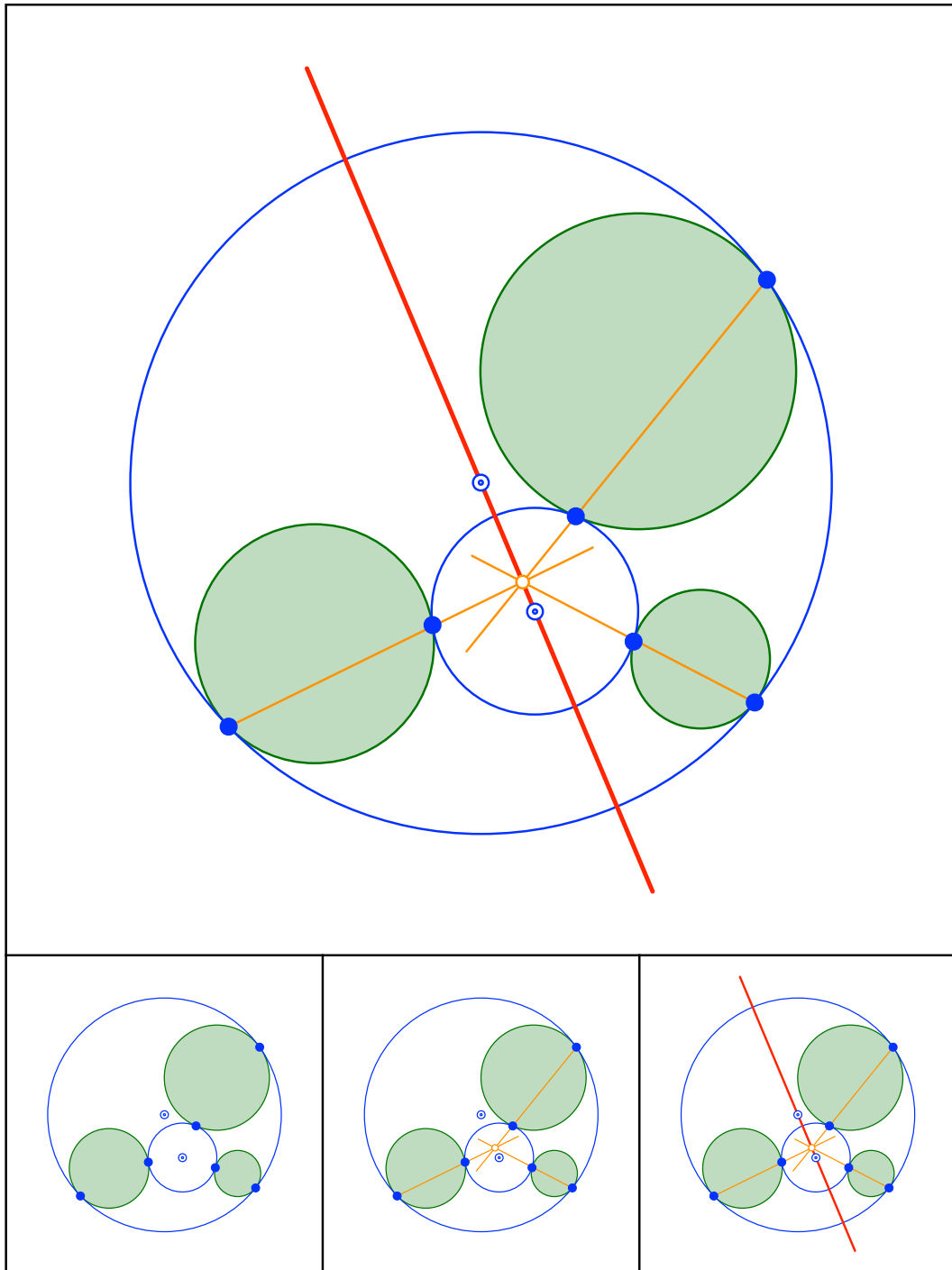
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Schlussgerade 131



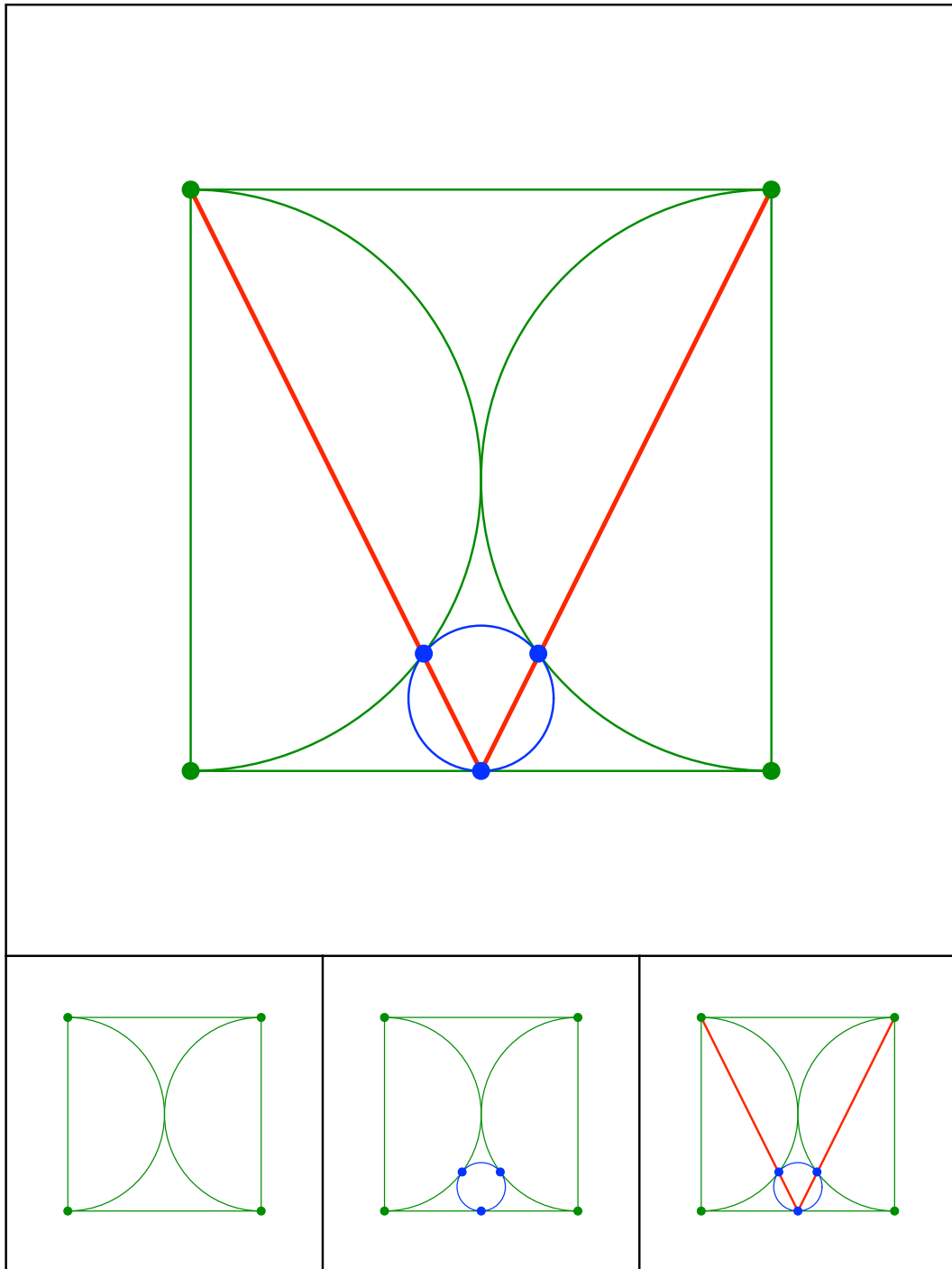
Äußere Winkelhalbierende, Ceva, Menelaos

Schlussgerade 132

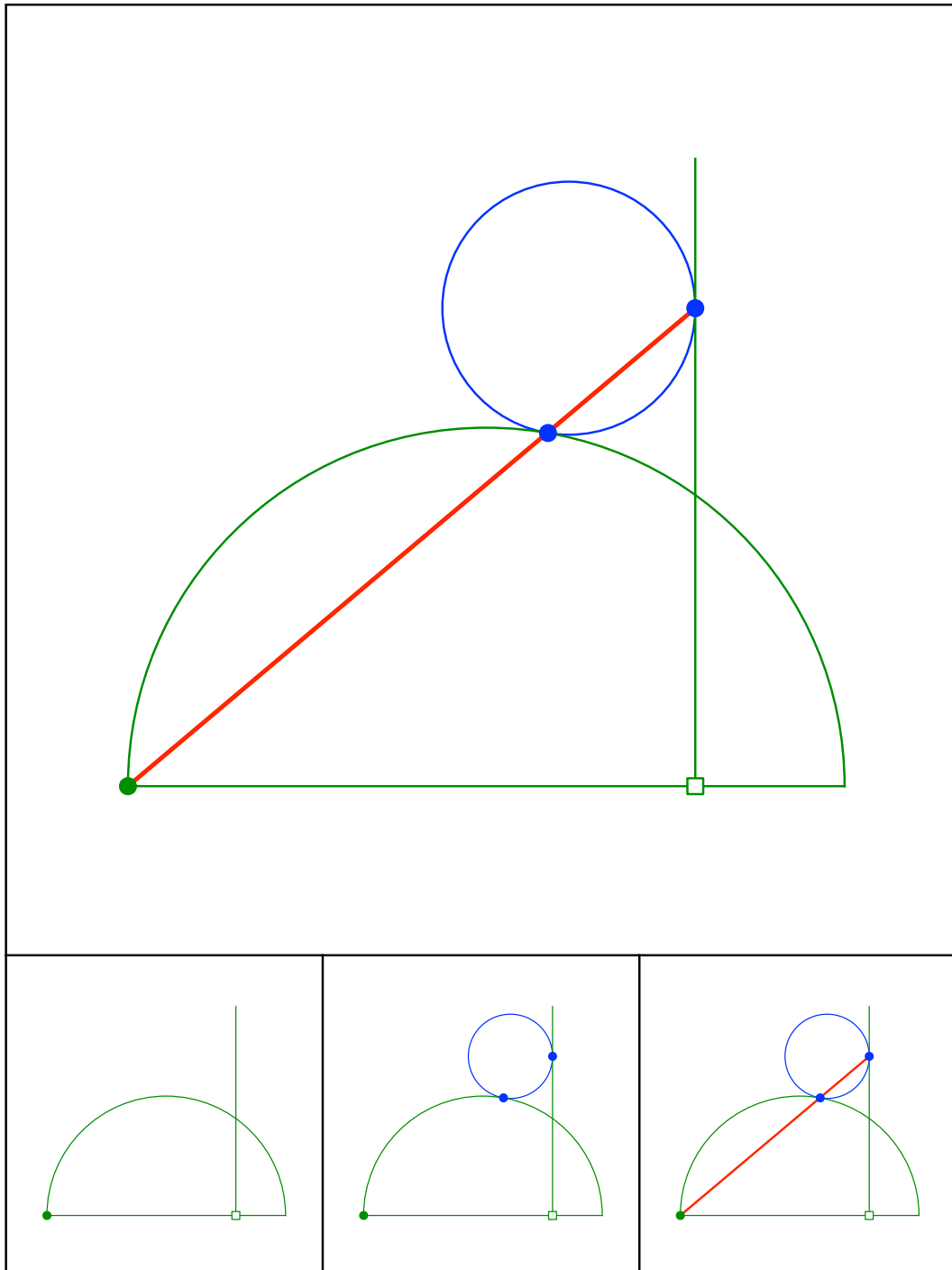


Apollonius

Schlussgerade 133

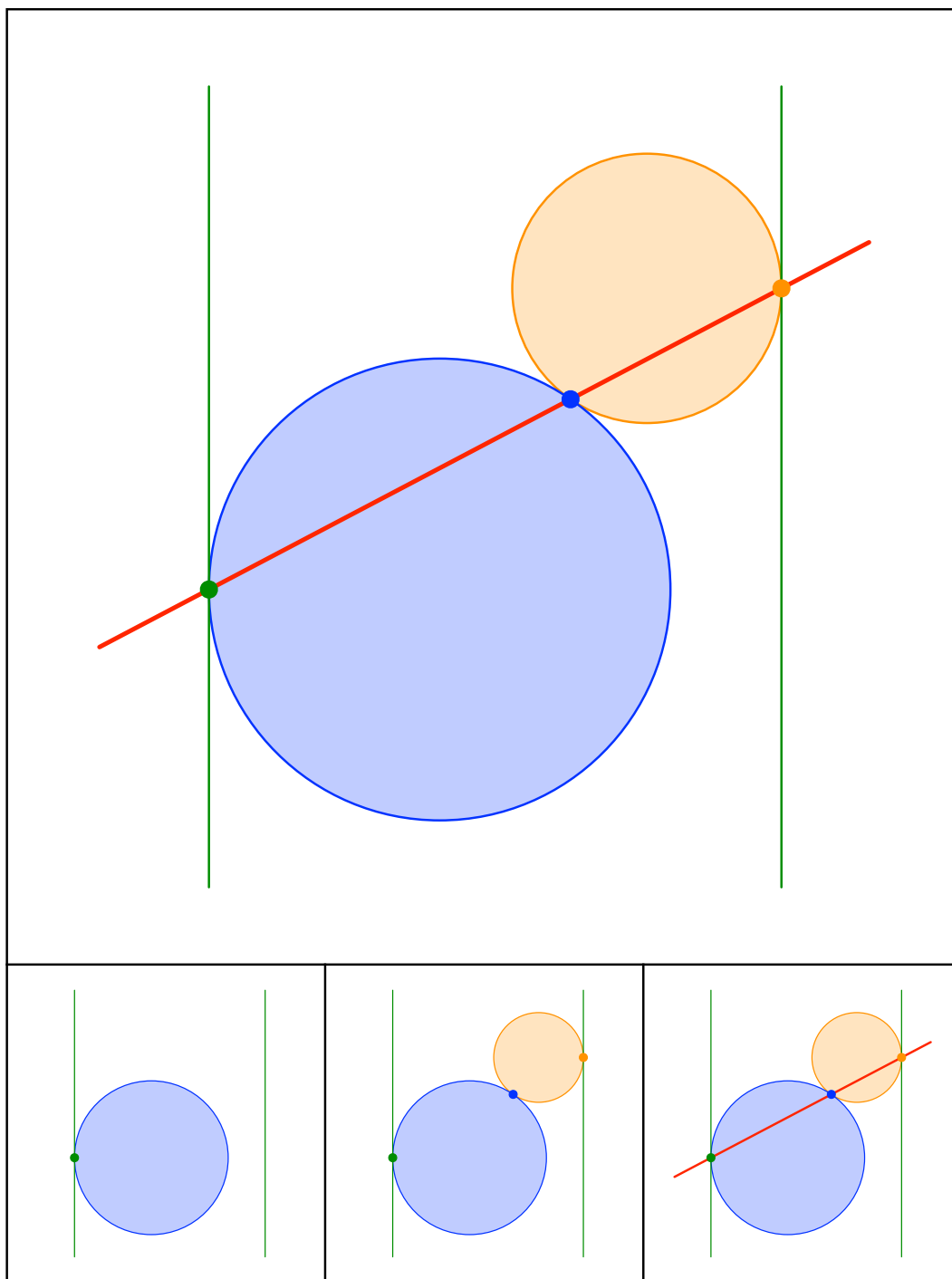


Schlussgerade 134



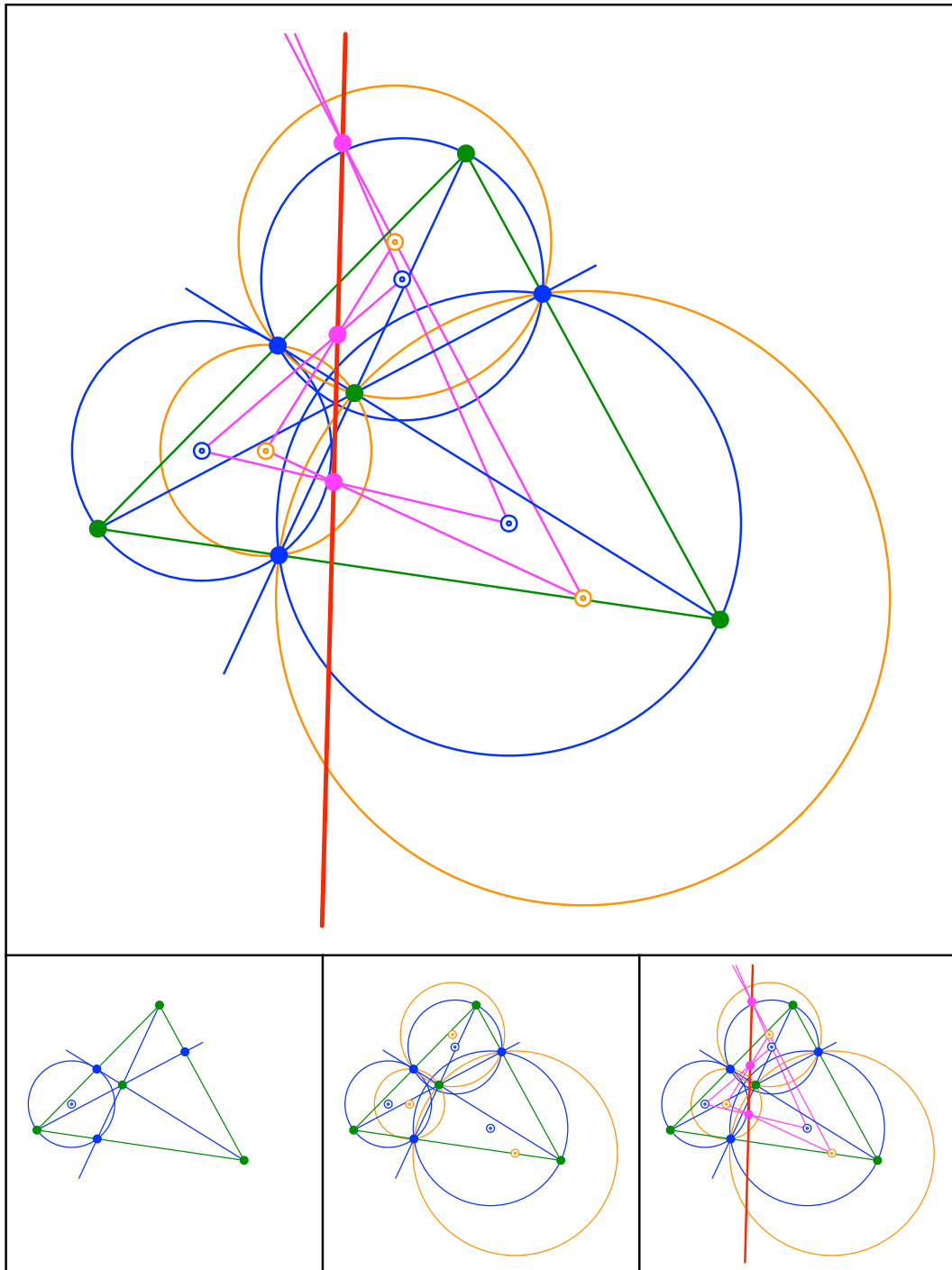
Abdilkadir Altintas, Turkey. [\[1\]](#)

Schlussgerade 135



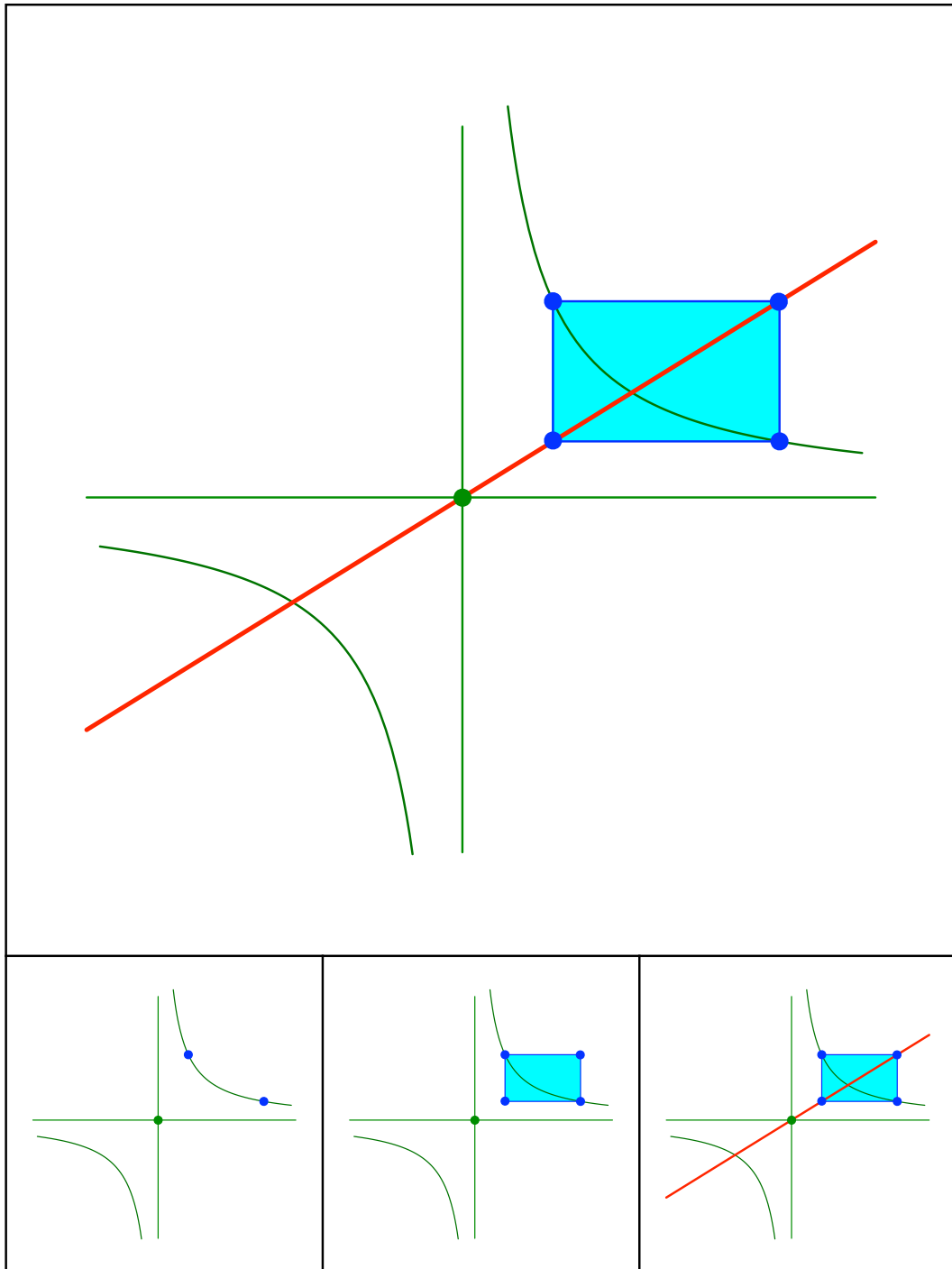
[Beweis \[2\]](#)

Schlussgerade 136



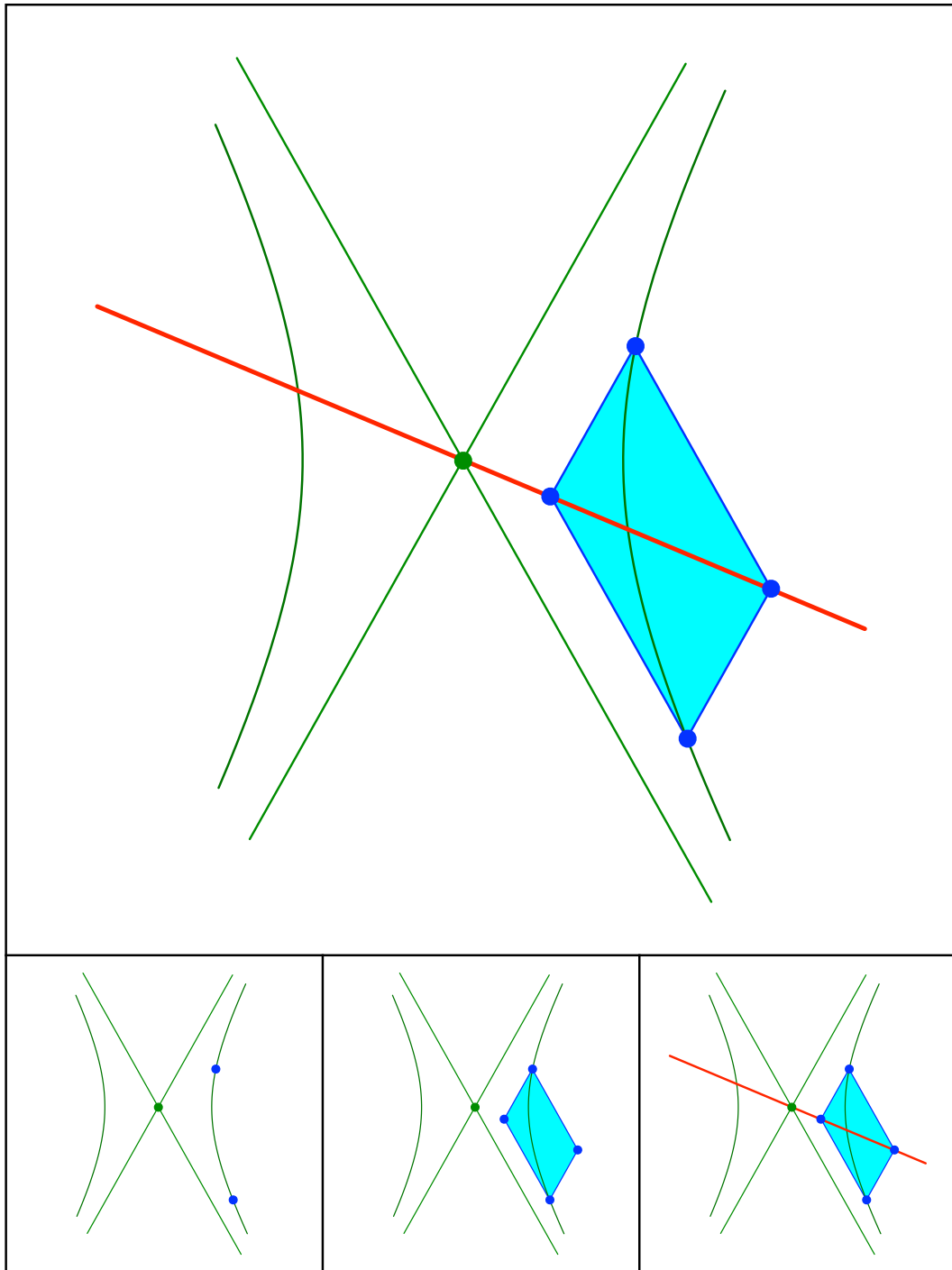
Abdilkadir Altintas, Afyon, Turkey

Schlussgerade 137



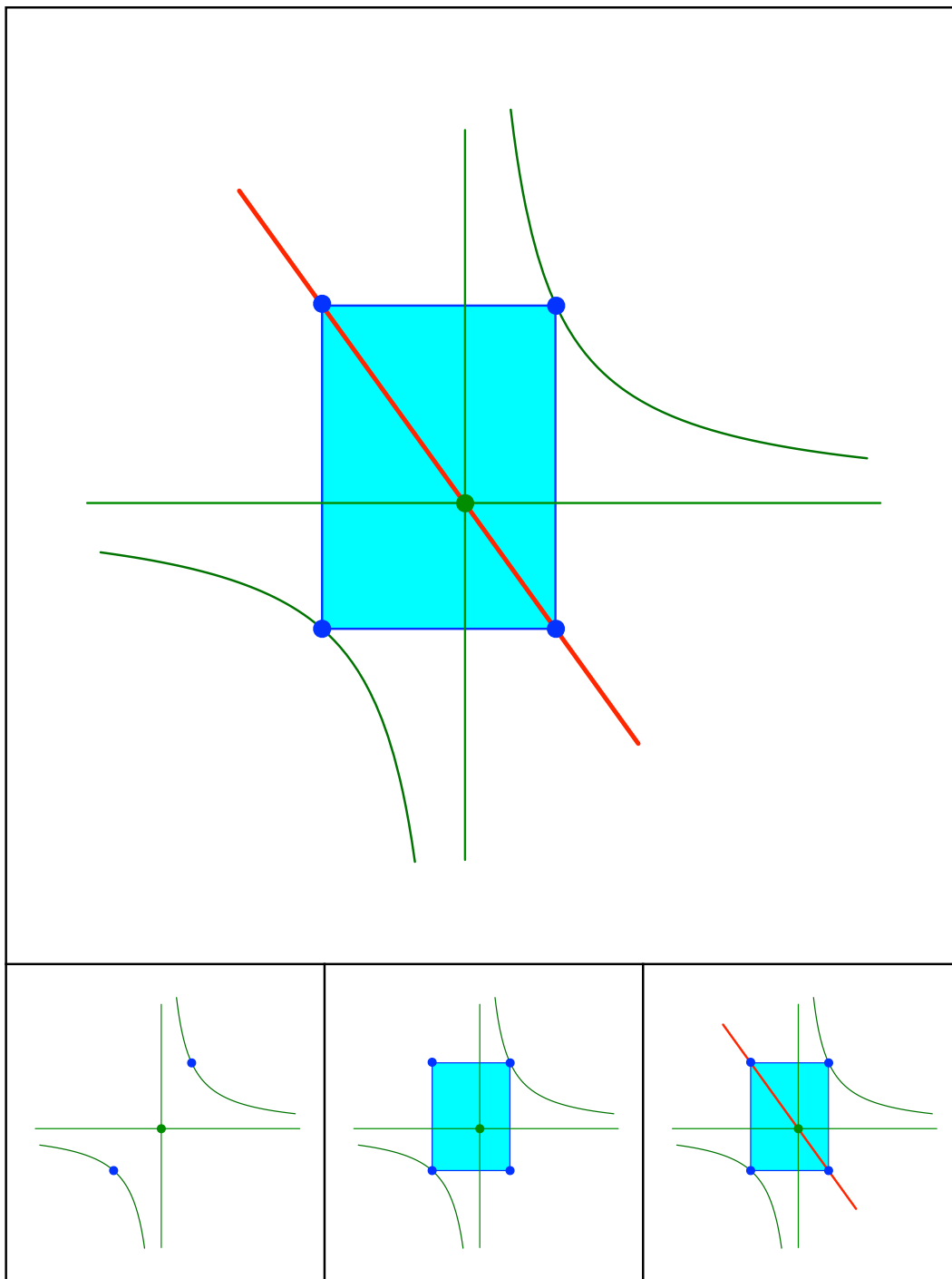
Hartmut Müller-Sommer, Vechta. [Beweis \[3\]](#)

Schlussgerade 138



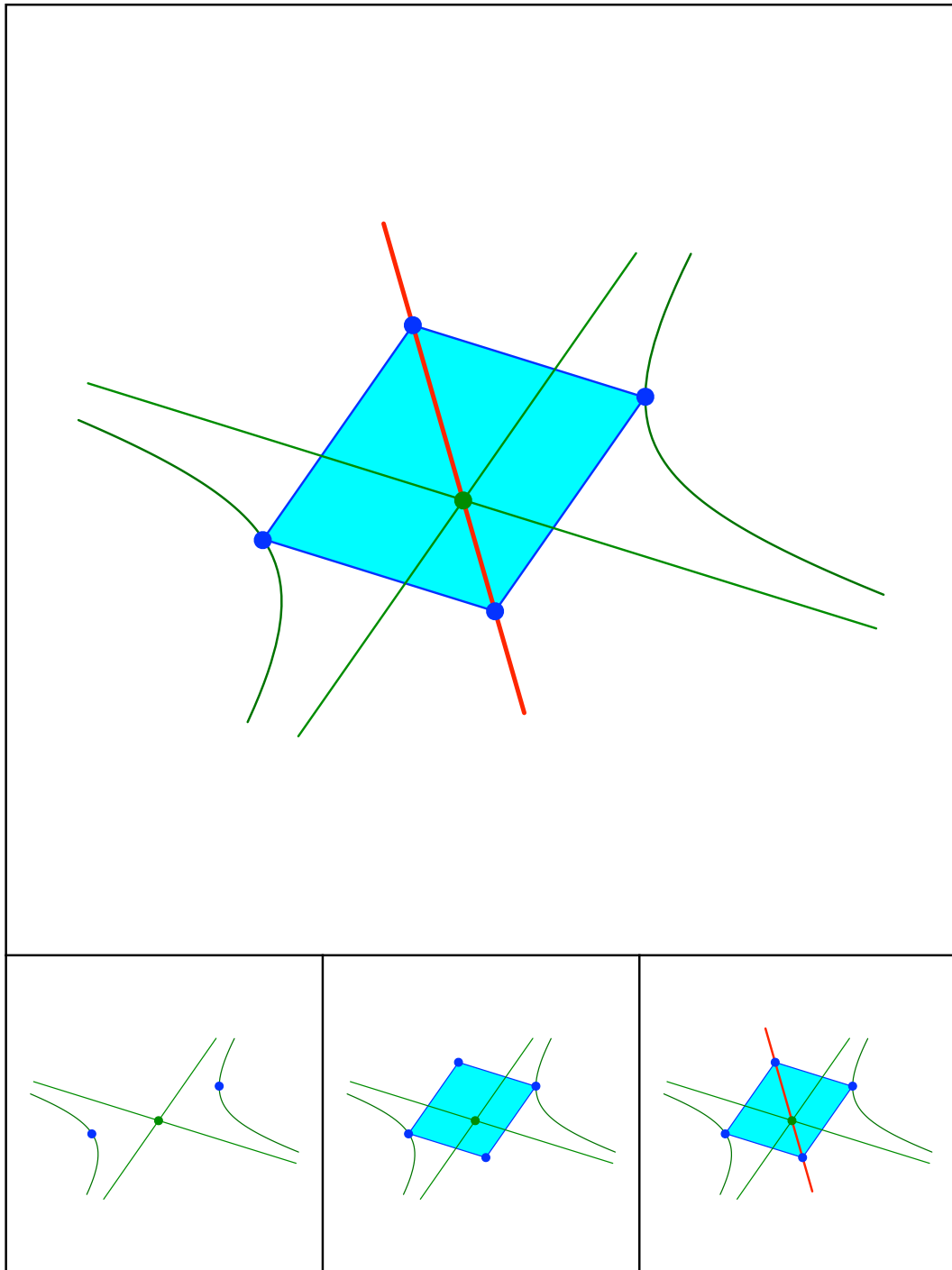
Hartmut Müller-Sommer, Vechta. [Beweis \[3\]](#)

Schlussgerade 139



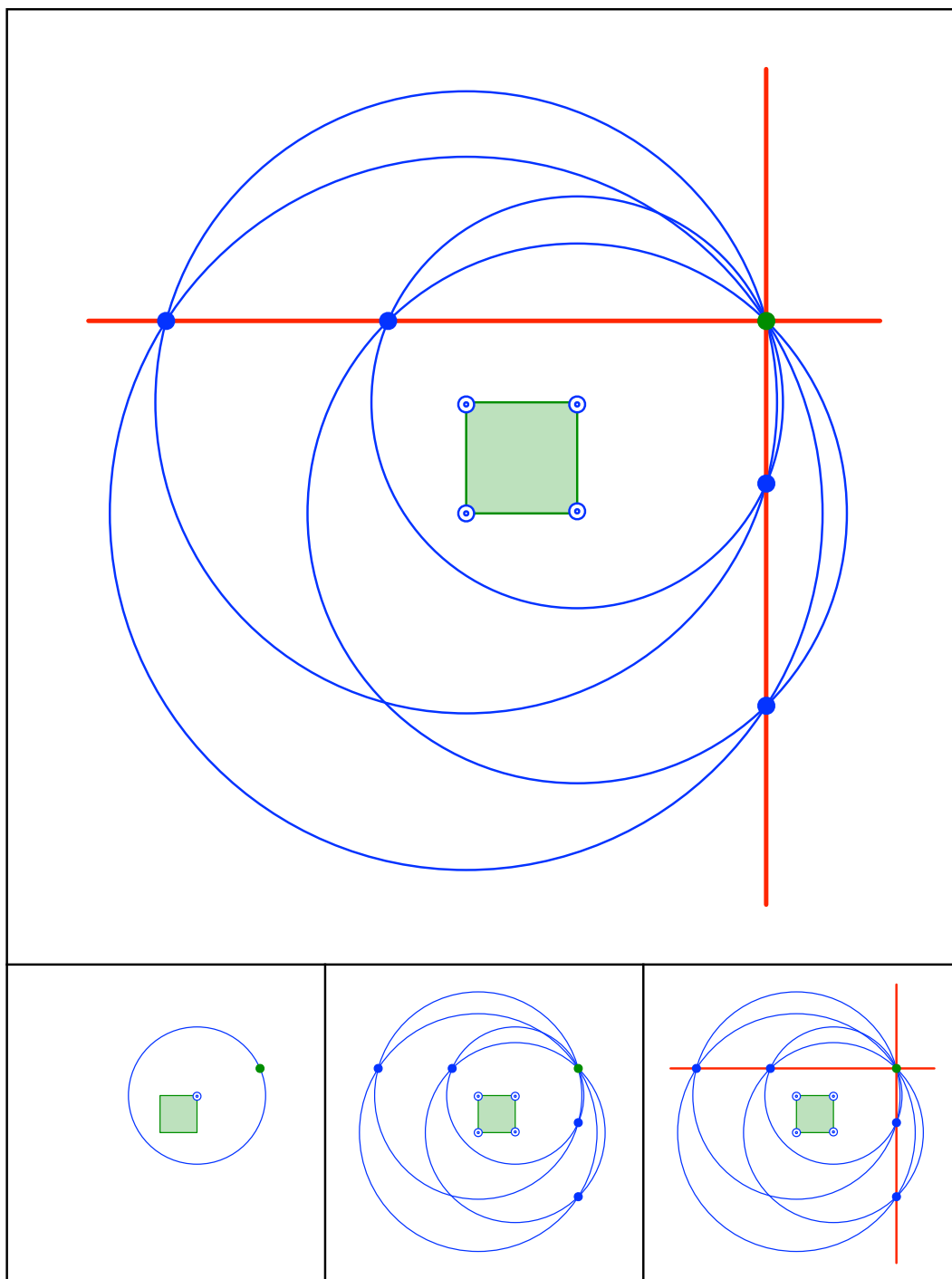
Hartmut Müller-Sommer, Vechta . [Beweis \[3\]](#)

Schlussgerade 140



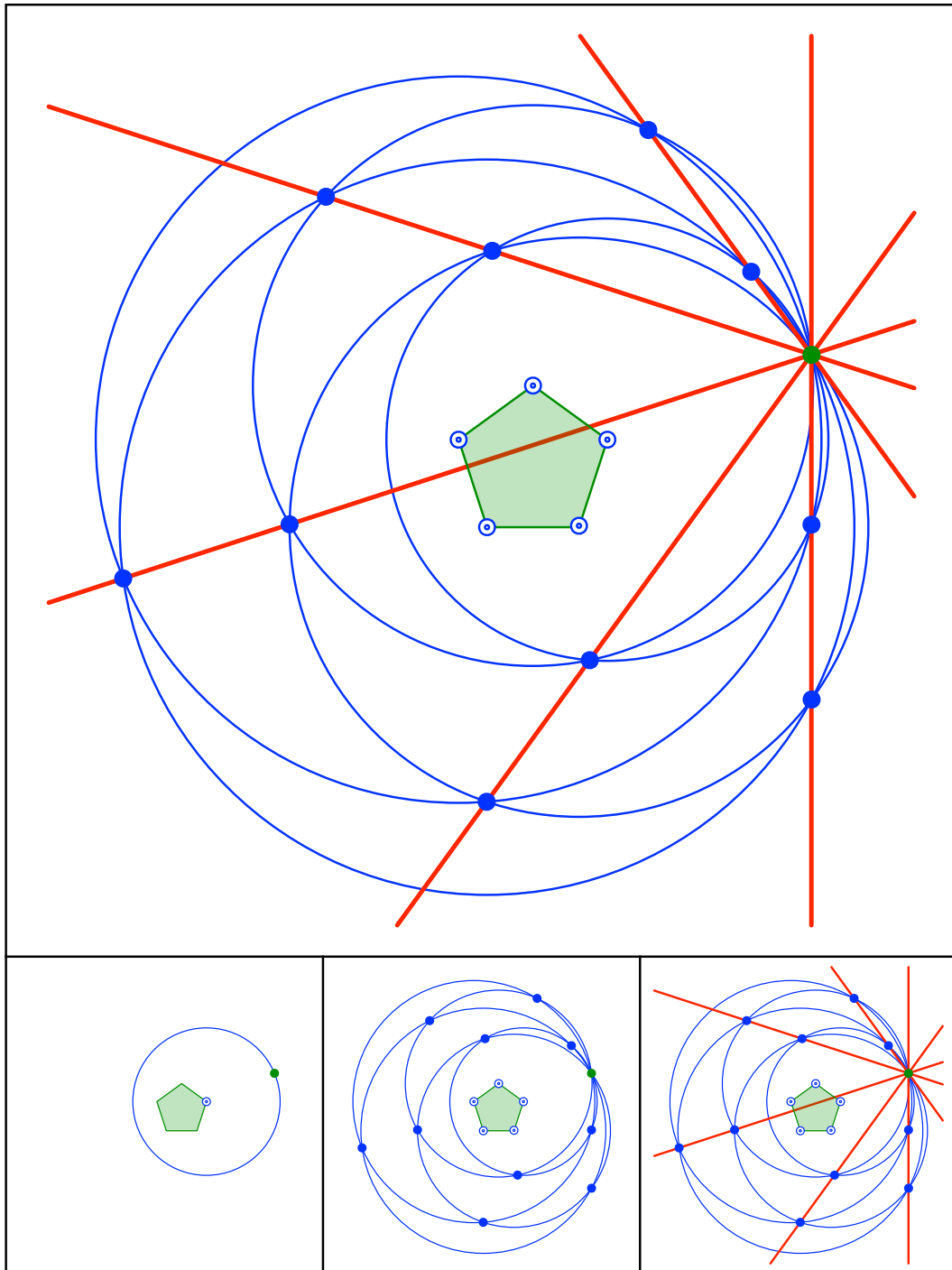
Hartmut Müller-Sommer, Vechta. [Beweis \[3\]](#)

Schlussgerade 141



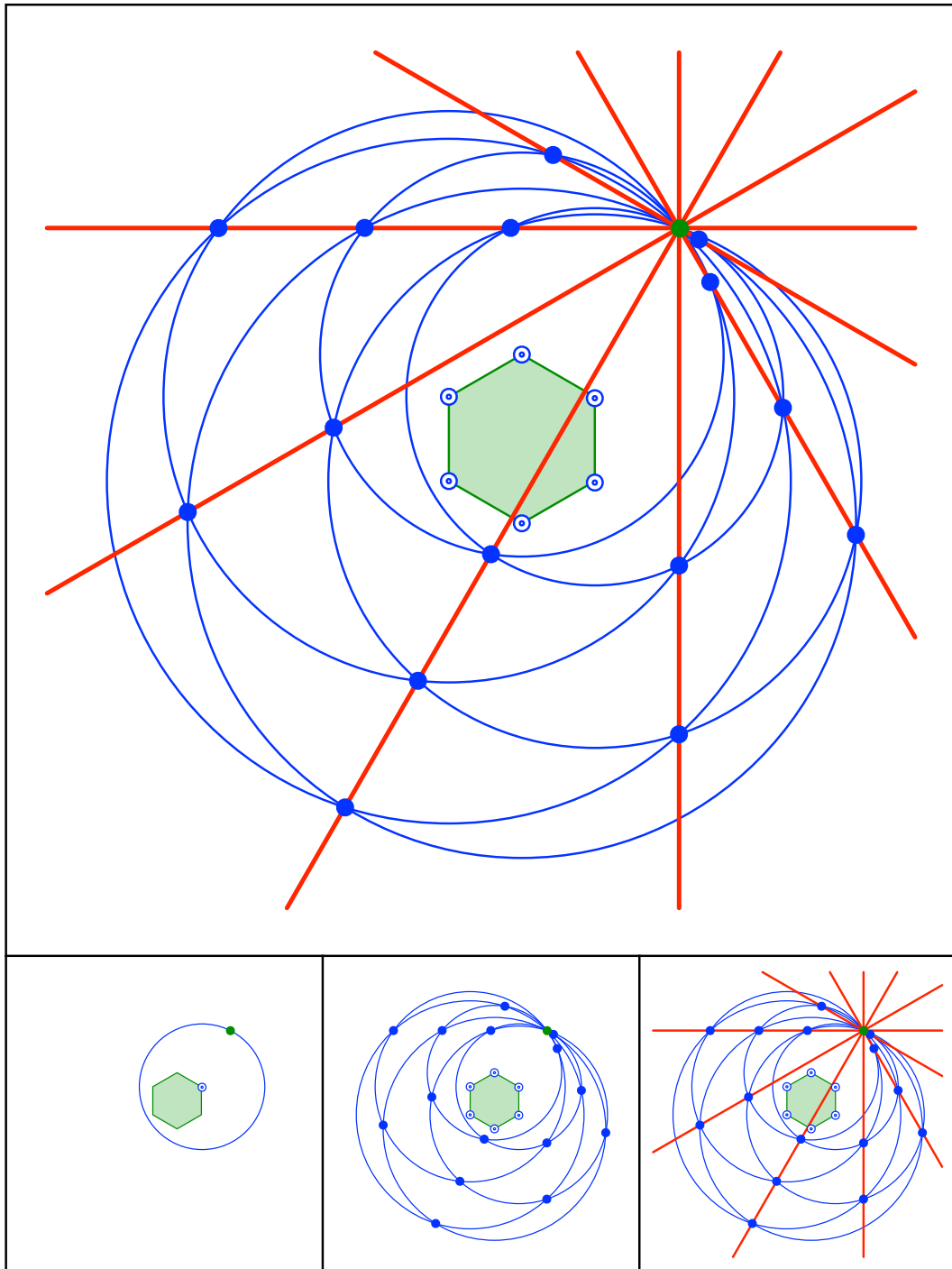
[Beweis \[4\]](#)

Schlussgerade 142



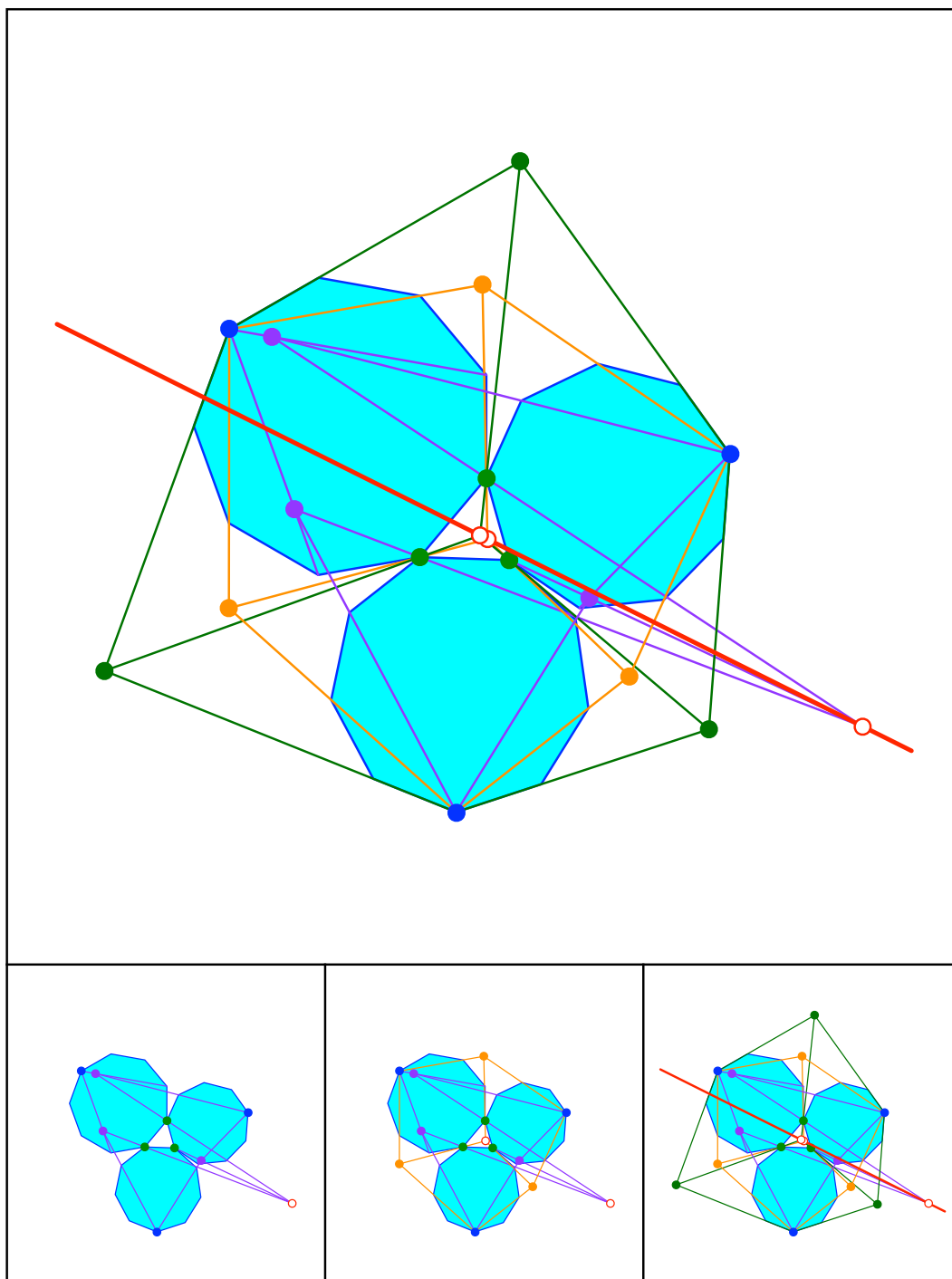
[Beweis \[4\]](#)

Schlussgerade 143



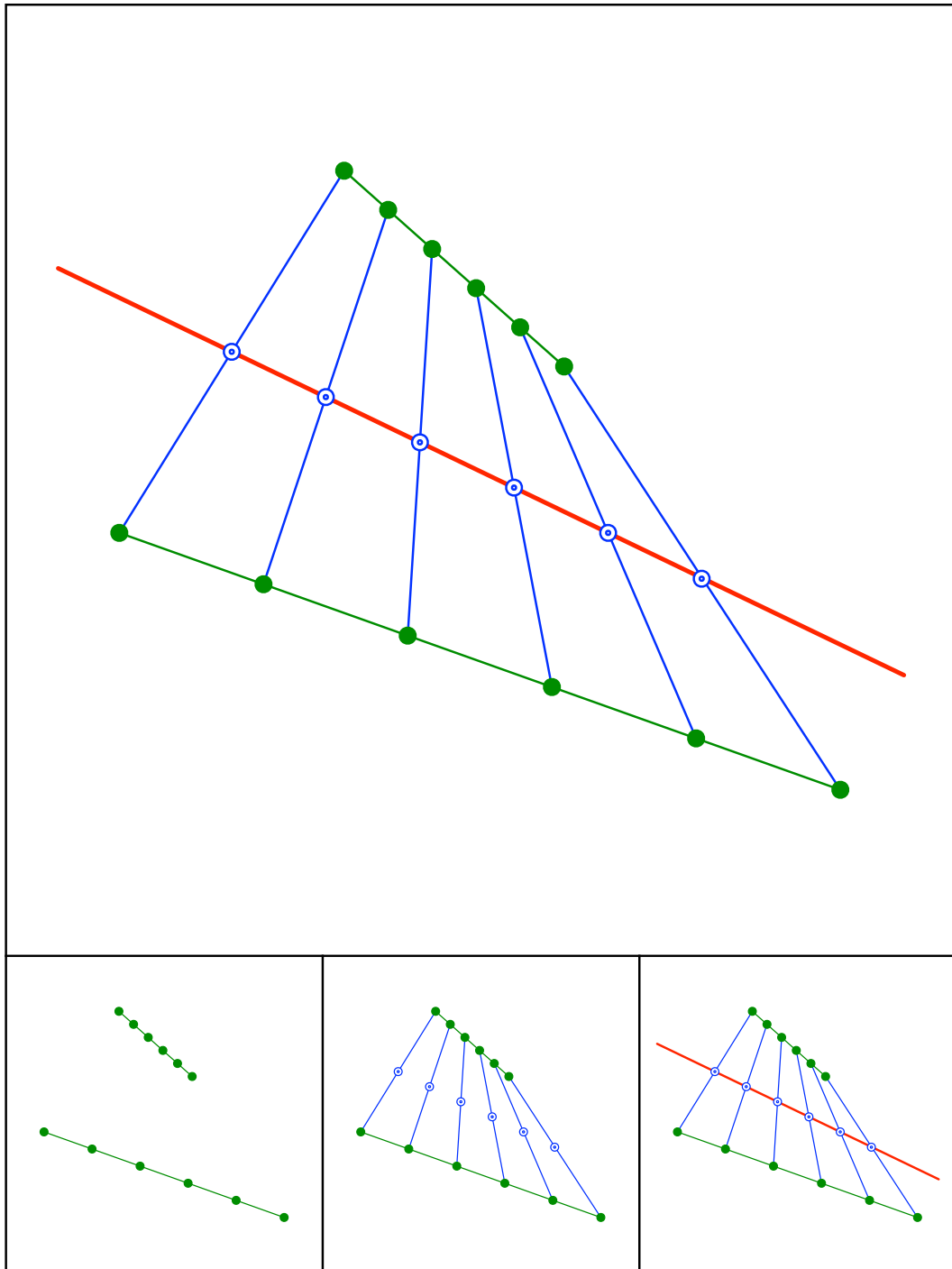
[Beweis \[4\]](#)

Schlussgerade 144



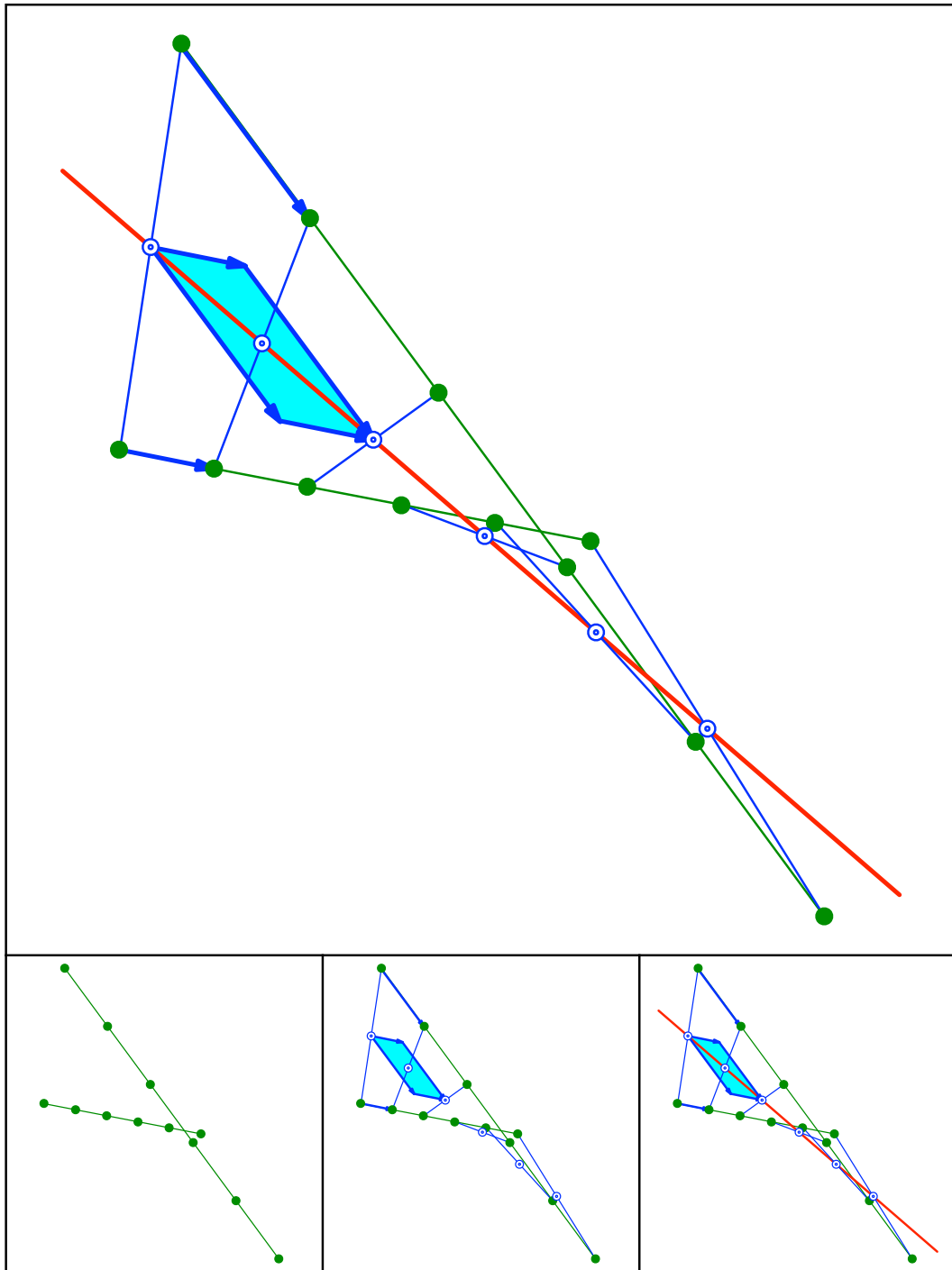
Lemoine-Gerade [\[5\]](#)

Schlussgerade 145



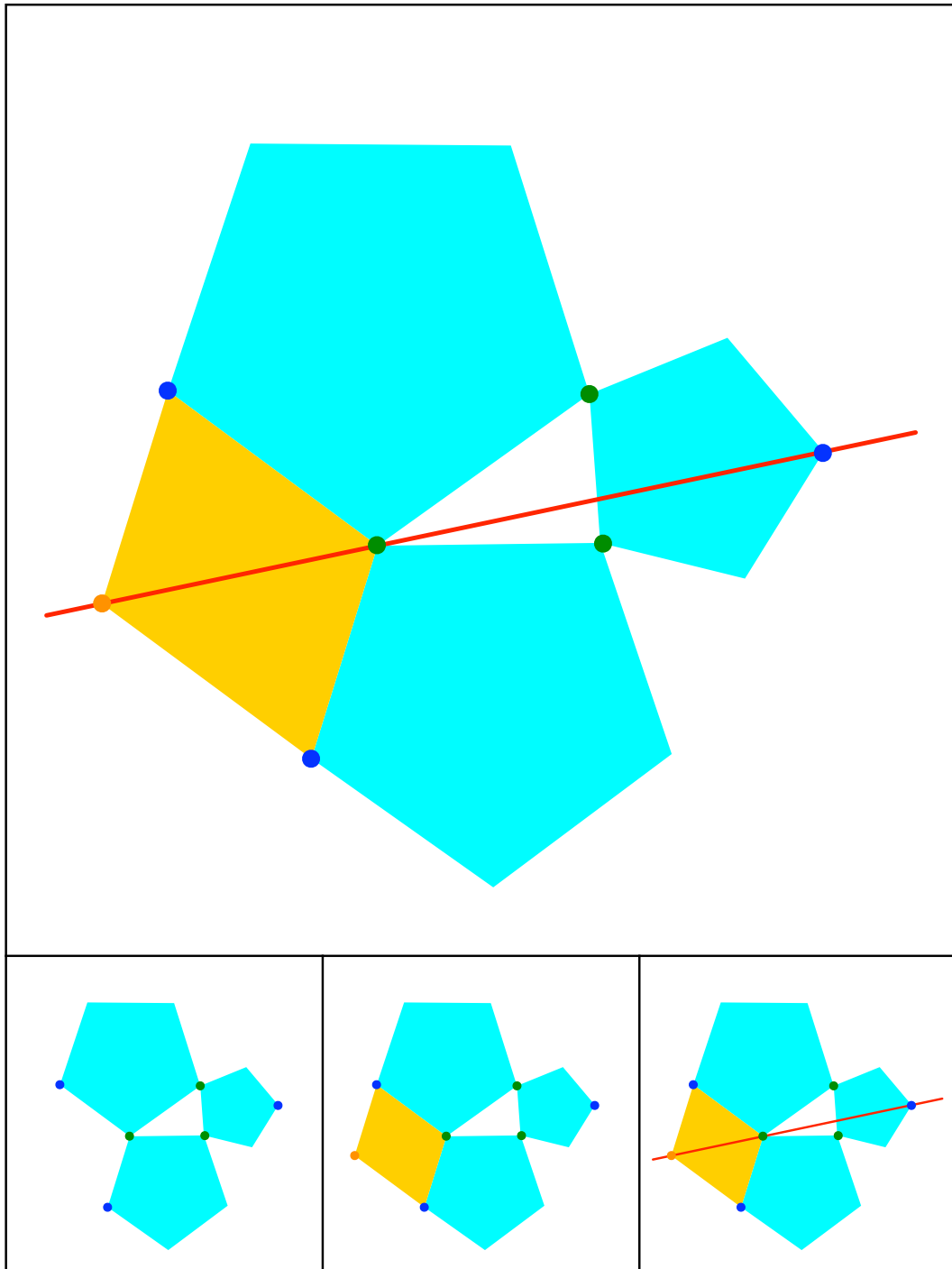
Linearität

Schlussgerade 146

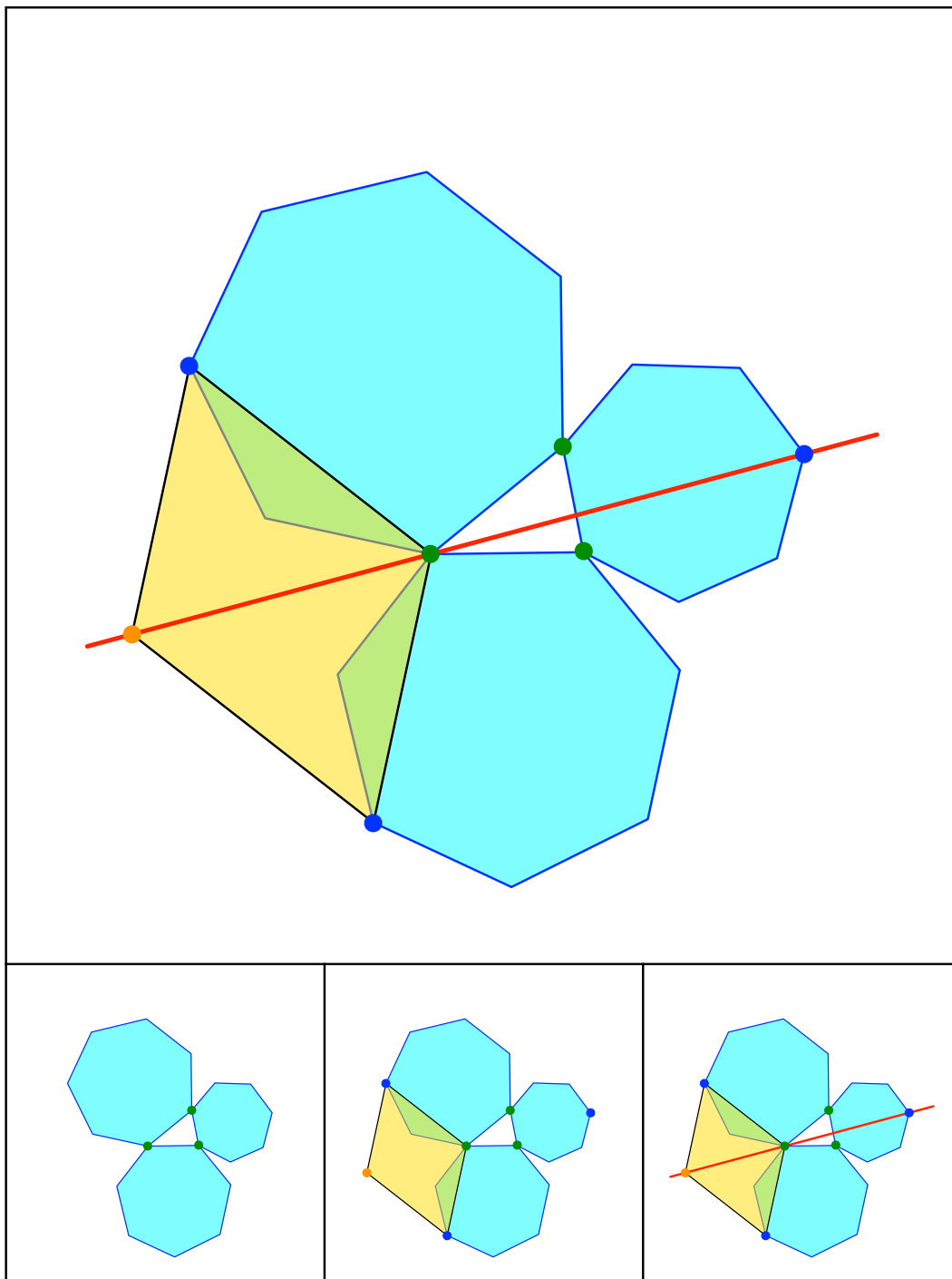


Linearität

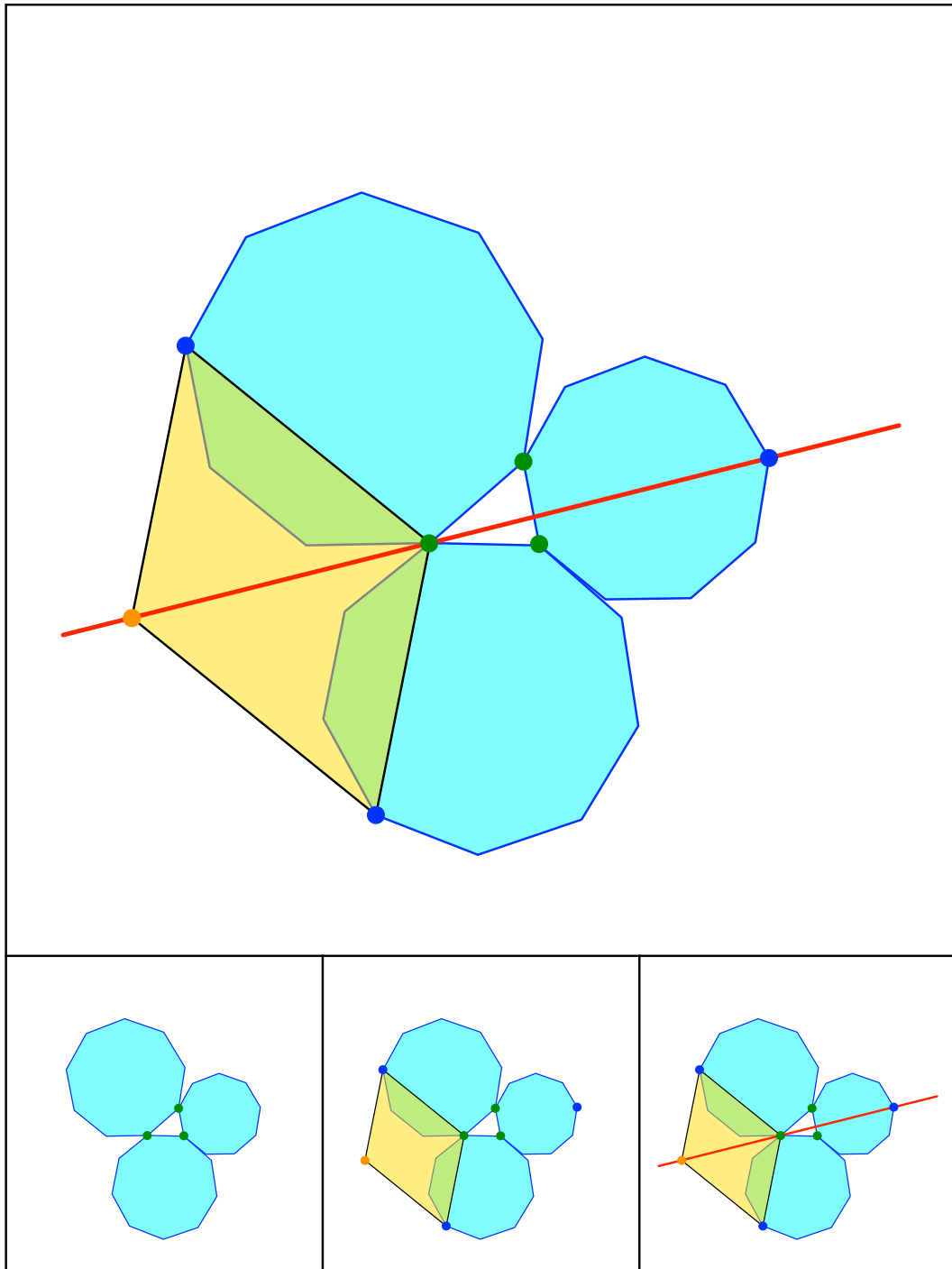
Schlussgerade 147



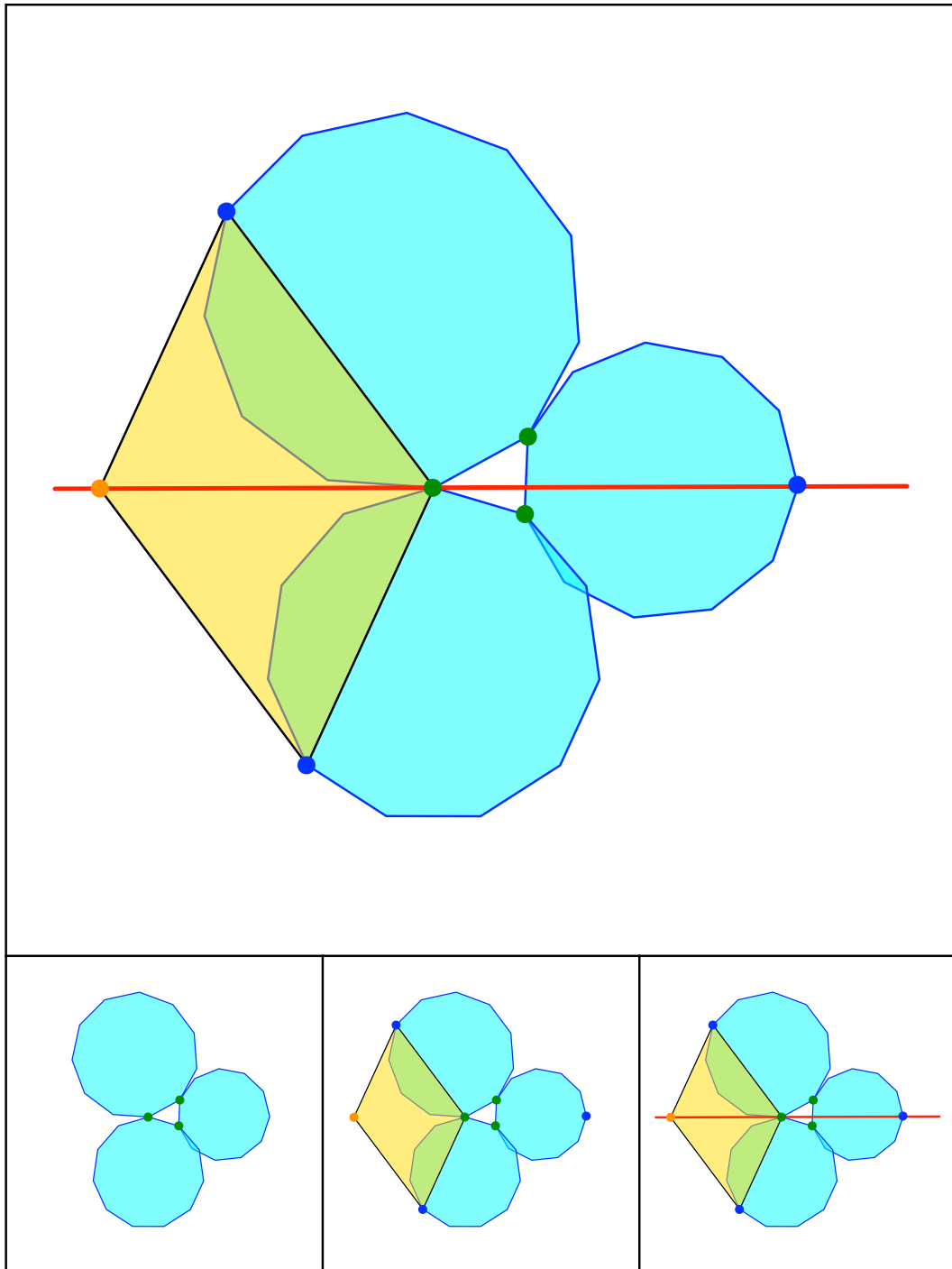
Schlussgerade 148



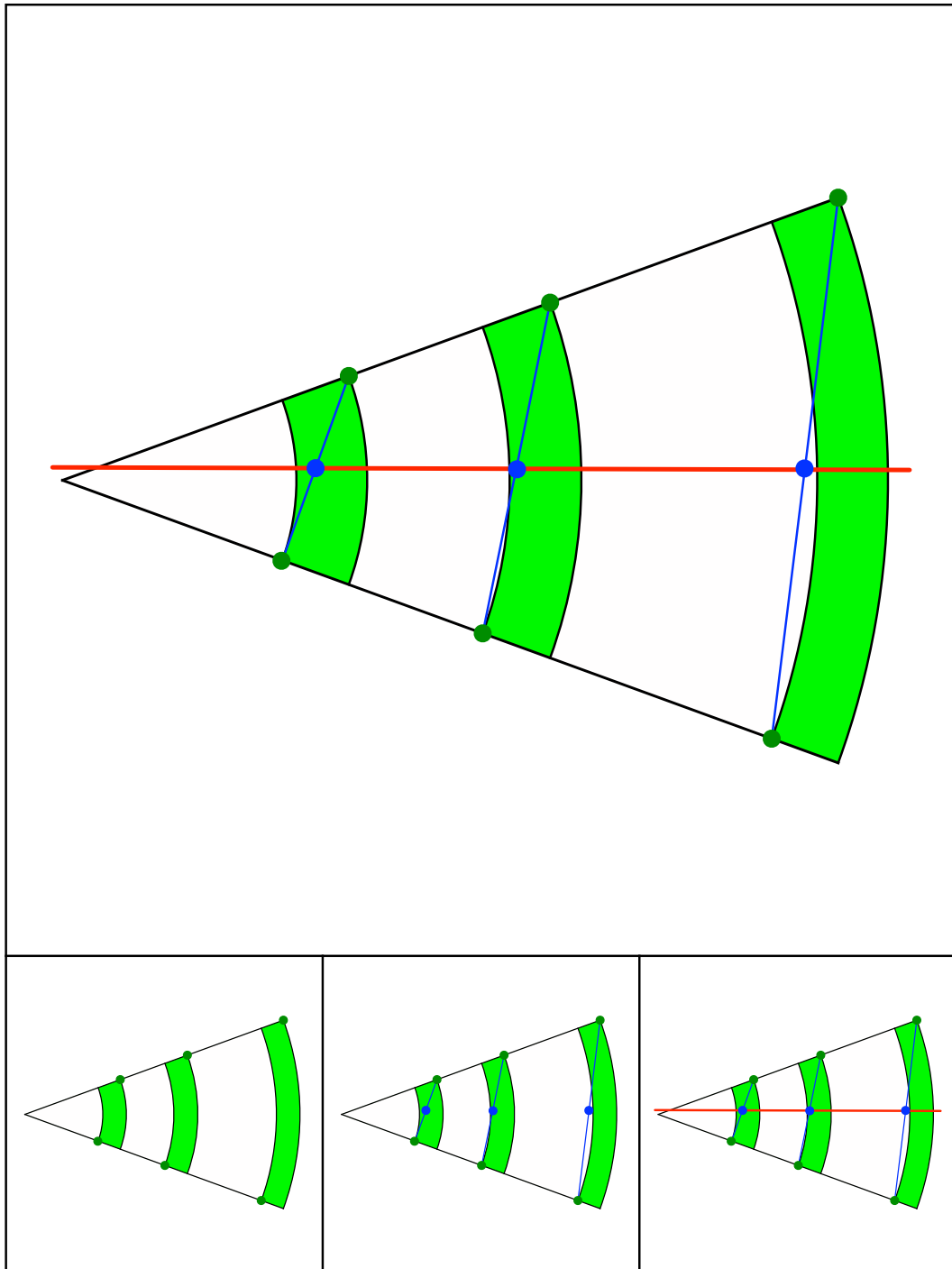
Schlussgerade 149



Schlussgerade 150

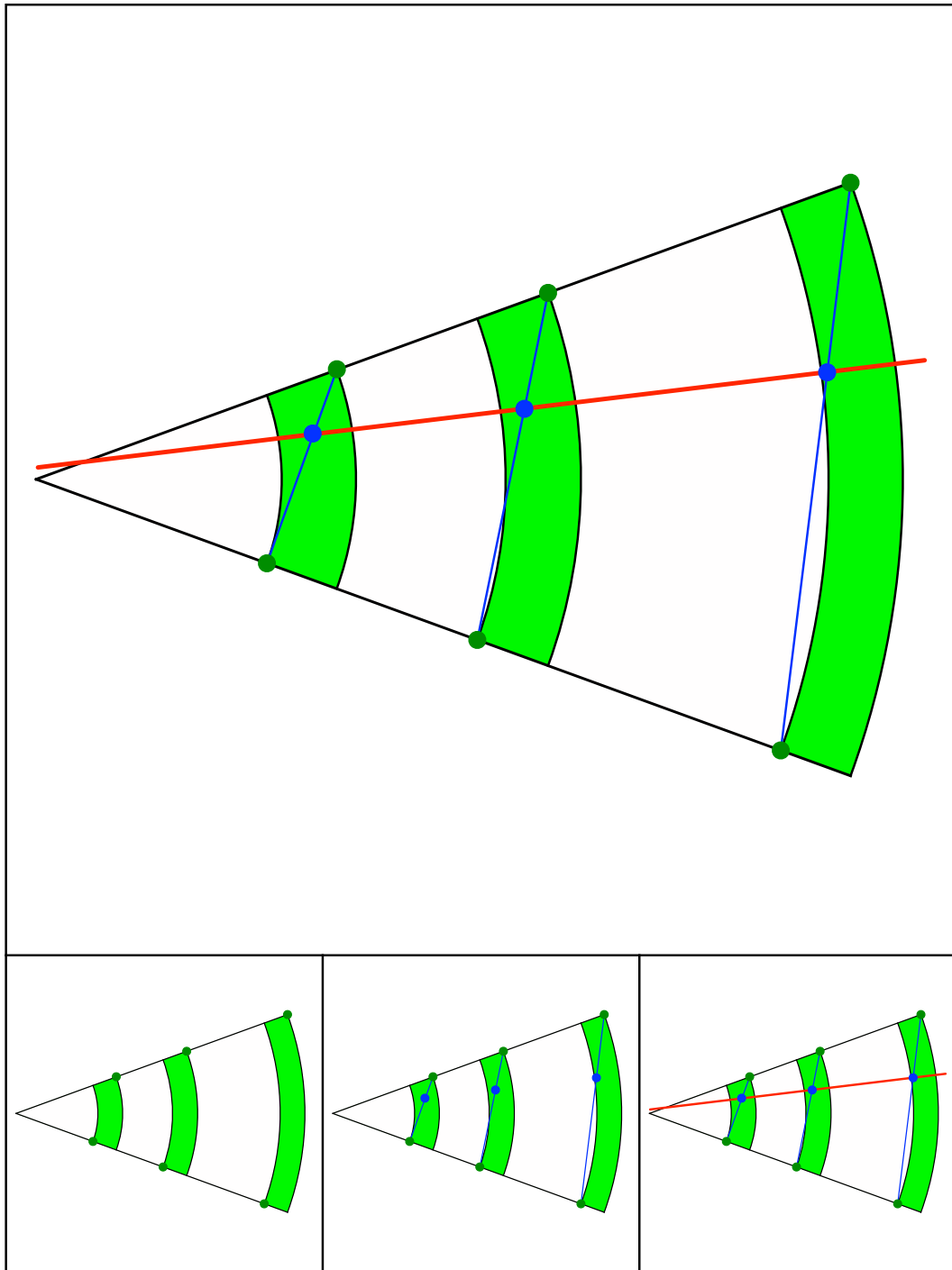


Schlussgerade 151



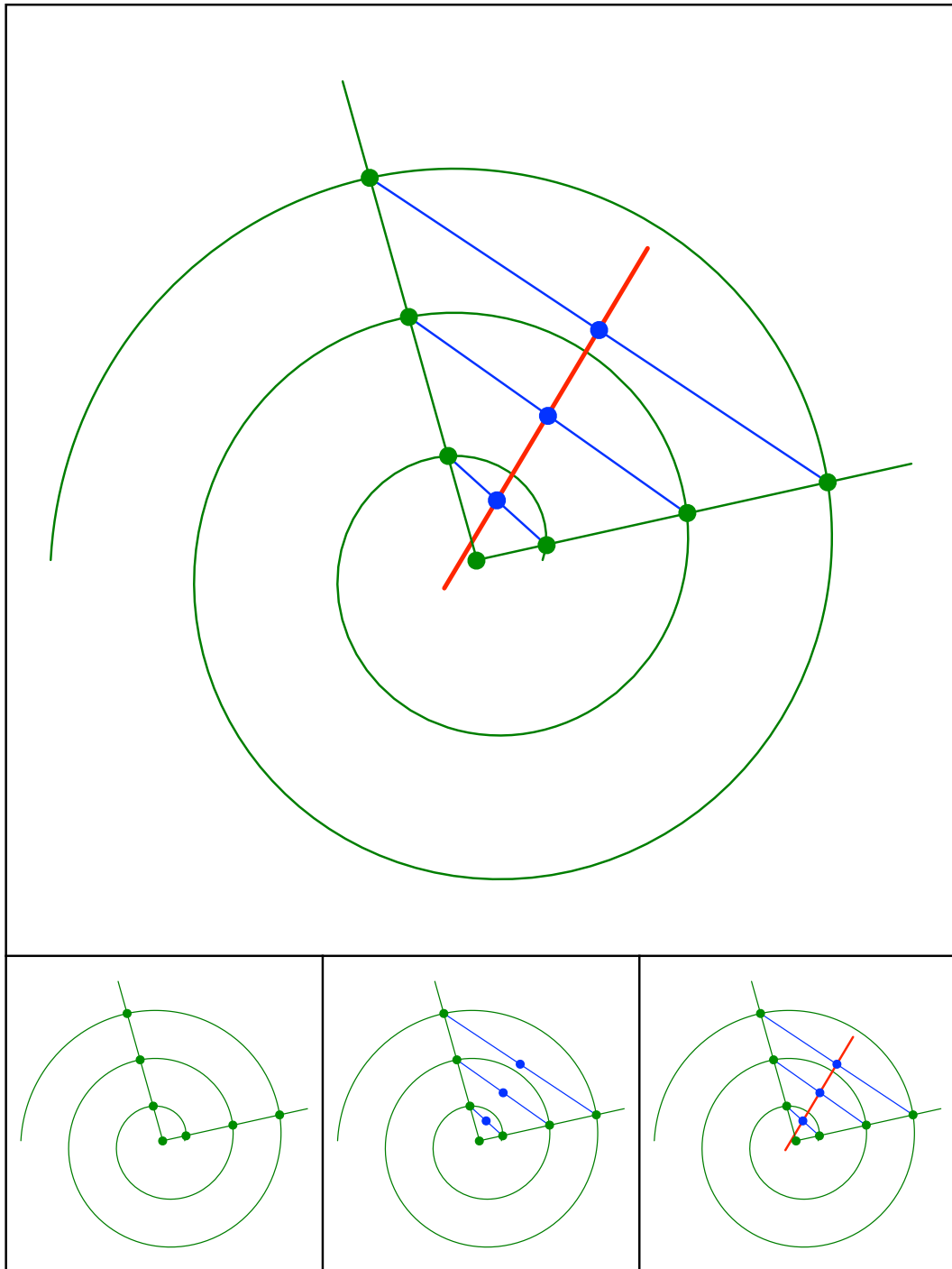
[Kreisringbögen gleicher Breite \[6\]](#)

Schlussgerade 152



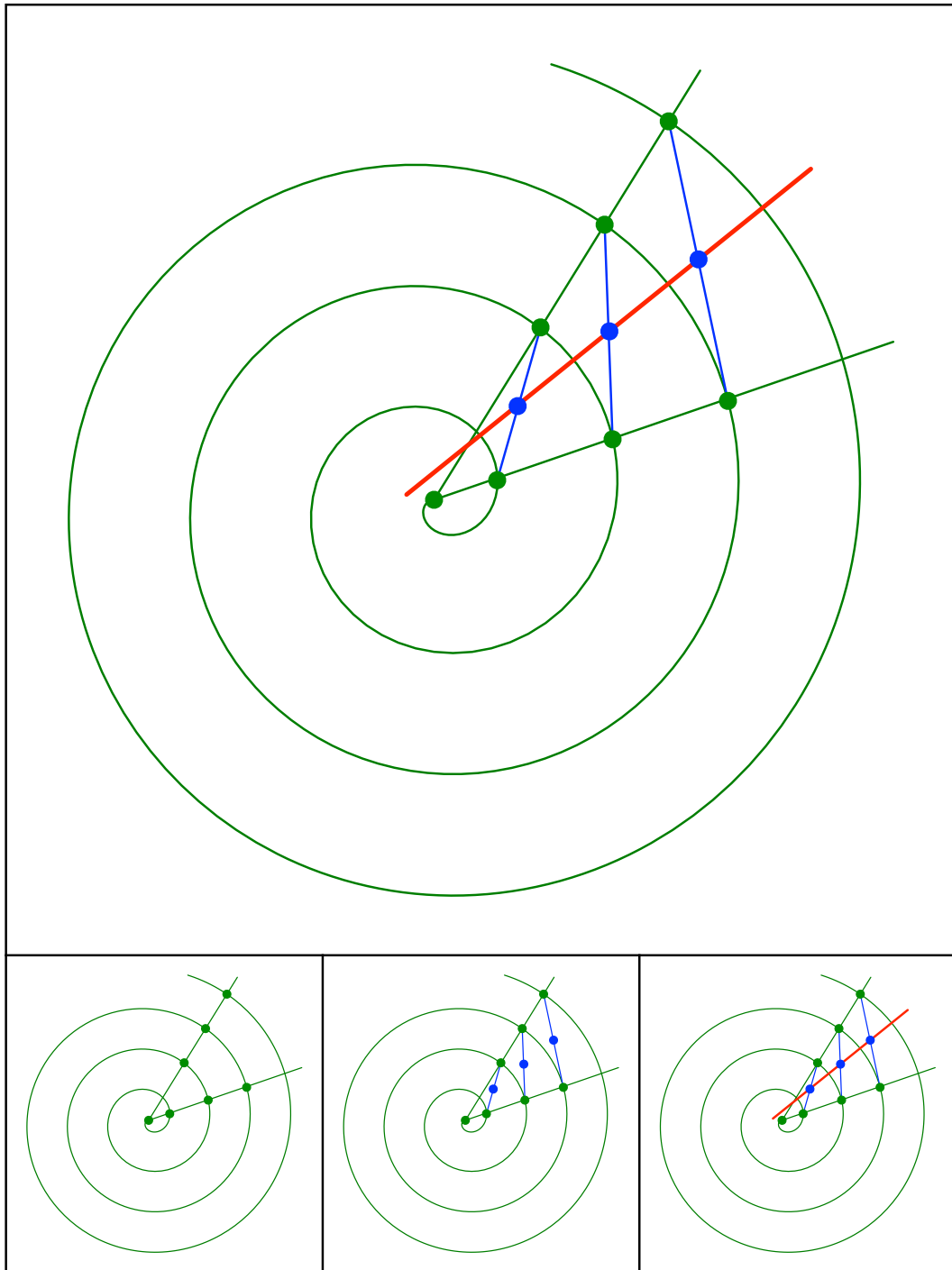
Dritteln

Schlussgerade 153



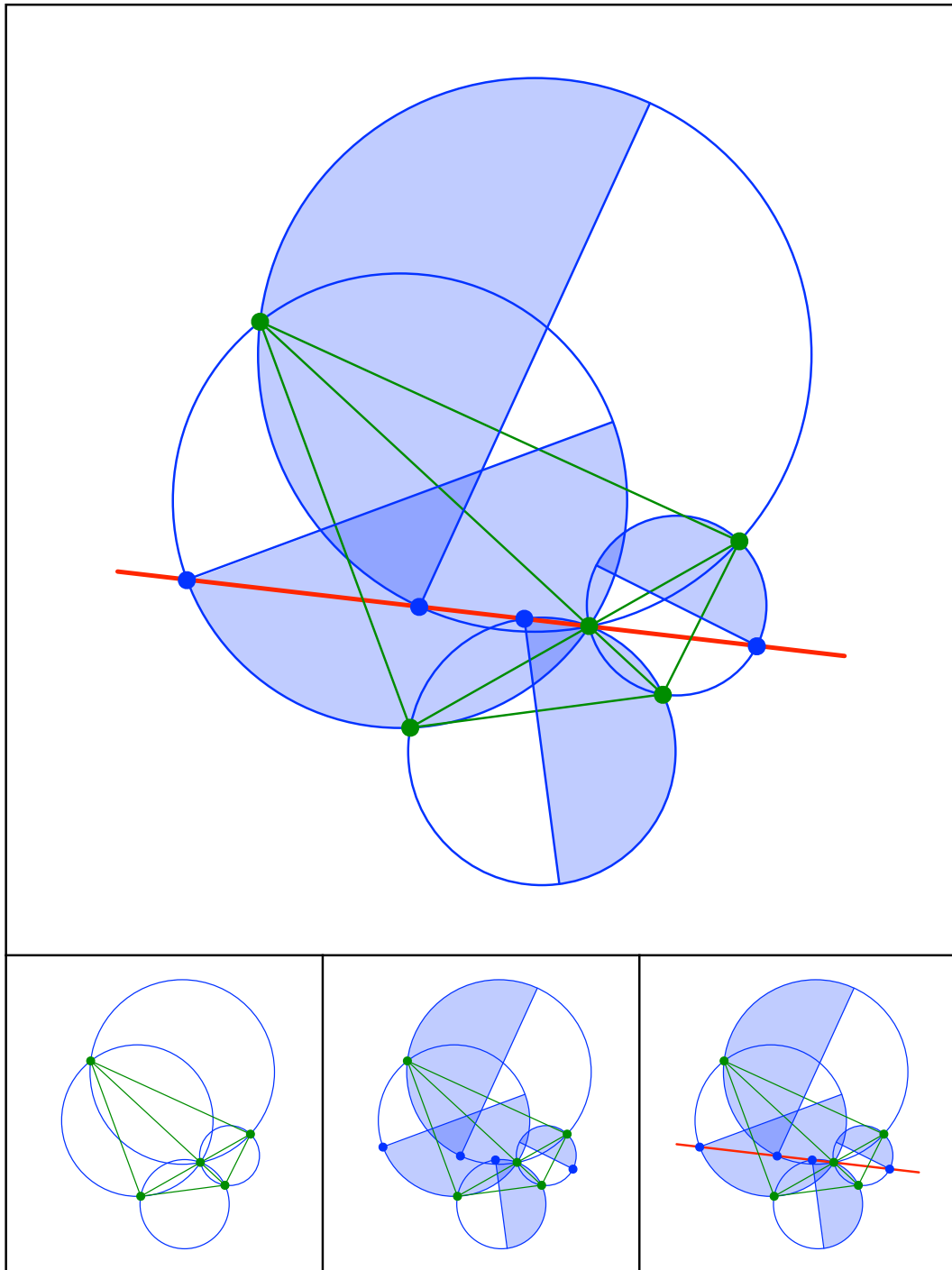
Archimedische Spirale

Schlussgerade 154



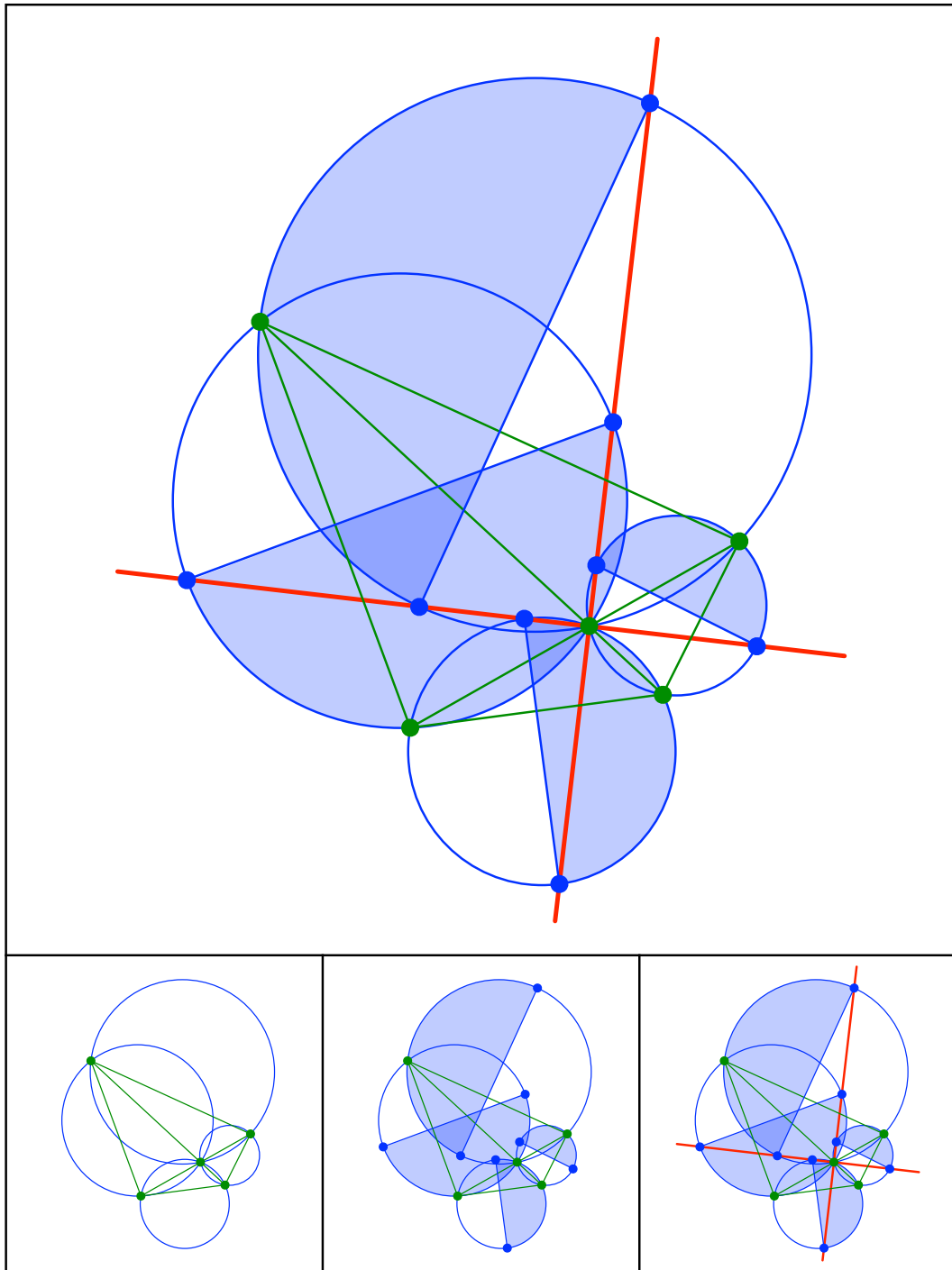
[Archimedische Spirale](#)

Schlussgerade 155



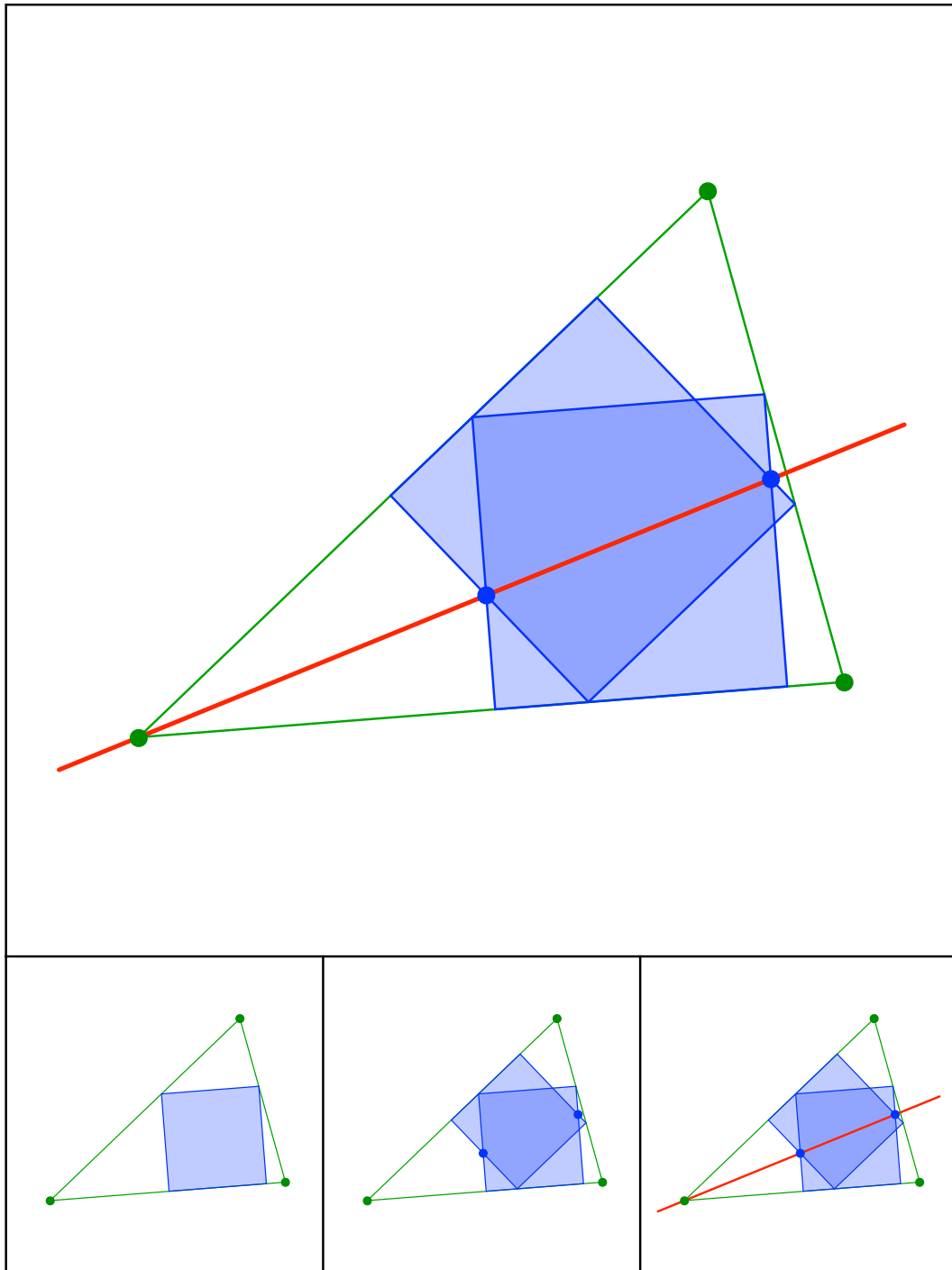
Winkelhalbierende

Schlussgerade 156

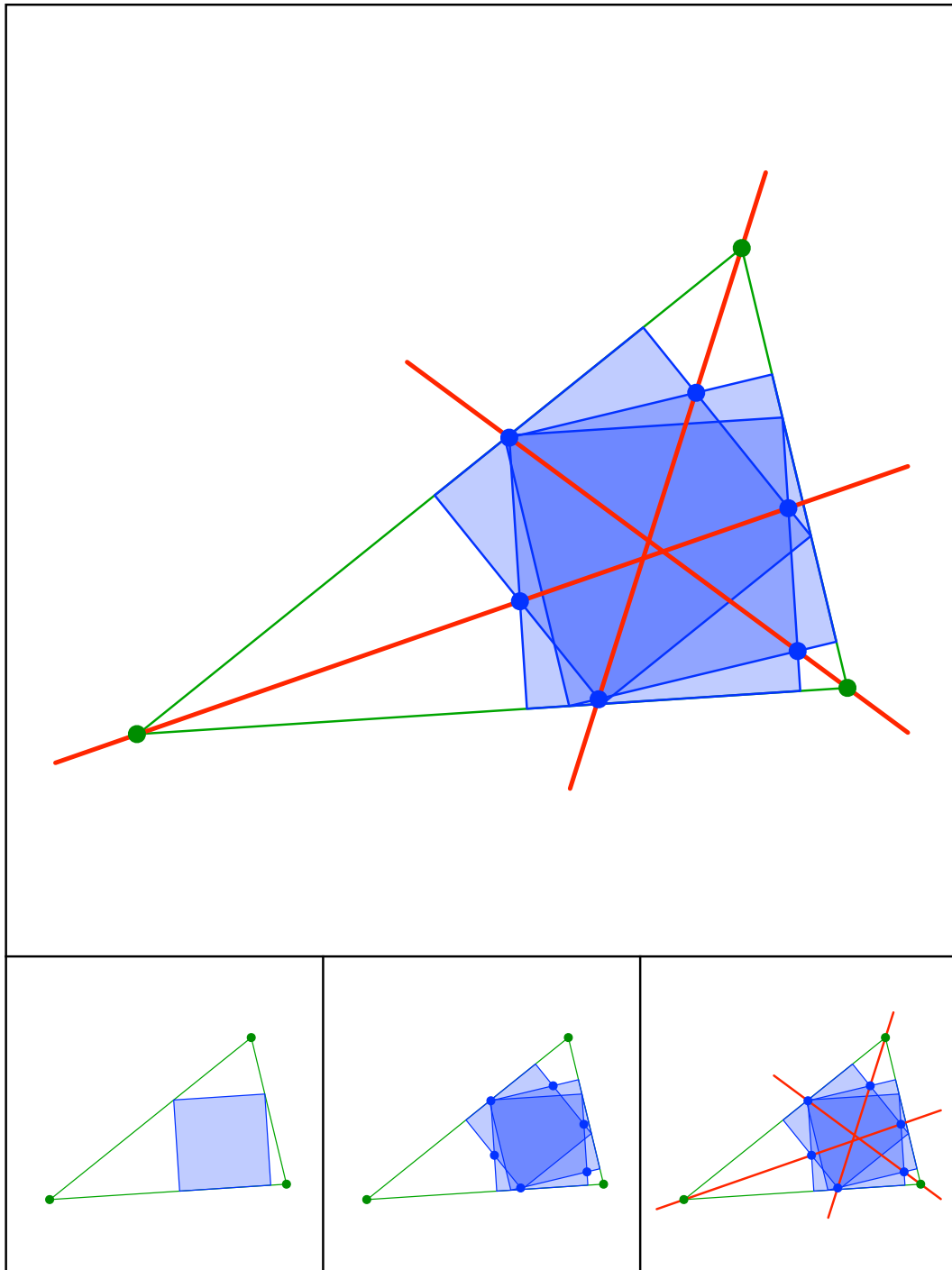


Winkelhalbierende

Schlussgerade 157



Schlussgerade 158



Literatur

F. G.-M. (Frère Gabriel-Marie) (1920): Exercices de géométrie. Comprendant l'exposé de méthodes géométriques et 2000 questions résolues. Sixième édition. Tours: Maison A. Mame et fils / Paris: J. de Gigord.

Réimpression: 1991, Edition Jacques Gabay, Sceaux. ISBN 2-87647-083-7

Scheffers, Georg Wilhelm (2016): Curiosa XIV. Mitteilungen der DMV 24 / 2016 / 95

Websites

[1] Hans Walser: Collinear points (July 05, 2017):

www.walser-h-m.ch/hans/Miniaturen/C/collinear_points/collinear_points.htm

[2] Hans Walser: Collinear and cocyclic points (July 08, 2017):

www.walser-h-m.ch/hans/Miniaturen/C/Collinear_and_cocyclic_points/Collinear_and_cocyclic_points.htm

[3] Hans Walser: Kollineare Punkte 3:

www.walser-h-m.ch/hans/Miniaturen/K/Kollineare_Punkte3/Kollineare_Punkte3.htm

[4] Hans Walser: Kollineare und kozyklische Punkte:

www.walser-h-m.ch/hans/Miniaturen/K/Koll_kozykl_Punkte/Koll_kozykl_Punkte.htm

[5] Hans Walser: Lemoine-Gerade (08.02.2020)

www.walser-h-m.ch/hans/Miniaturen/L/Lemoine-Gerade/Lemoine-Gerade.htm

[6] Hans Walser: Kollineare Punkte 4

http://www.walser-h-m.ch/hans/Miniaturen/K/Kollineare_Punkte4/Kollineare_Punkte4.htm