

Another problem of ten circles:

Let three green circles 1, 2, 3 and a circle purple 4.
Construct two circles of Apollonius touching 1, 2 , and 4. These two circles of Apollonius touching 4 at two points A, B. Construct two circles of Apollonius touching 2, 3 , and 4, These two circles of Apollonius touching 4 at two points C, D Construct two circles of Apollonius touching 3, 1 , and 4, These two circles of Apollonius touching 4 at two points E, F. Show than AB, CD, EF are concurent.

