

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 that AB, CD, EF are concurrent.

