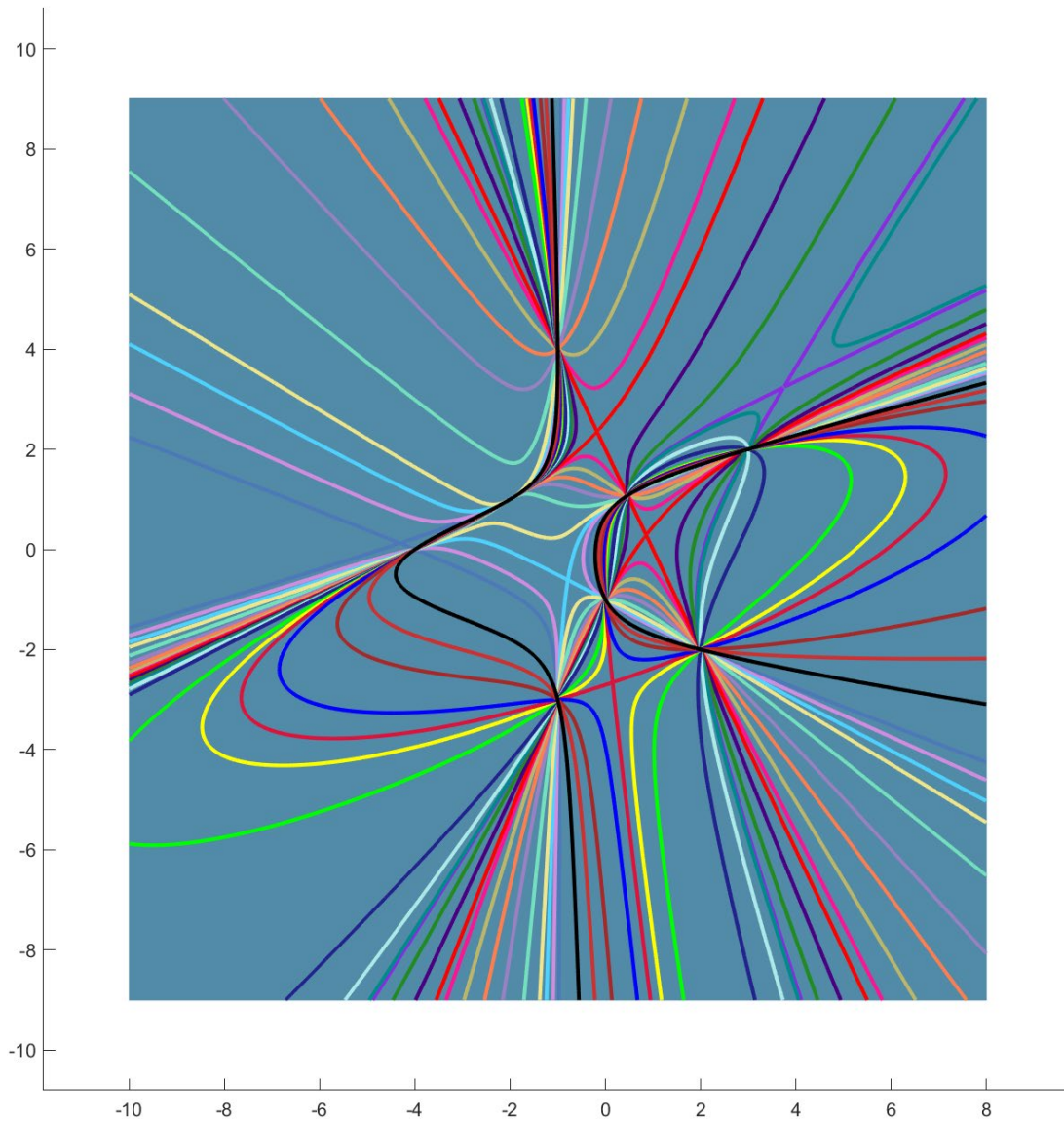


Infinitely near



Part of a series that started with [Eight implies nine](#) and [Study of the ninth](#). The ninth is the Cayley-Bacharach point, which keeps tickling curiosity.

In the above (rotated) version of Infinitely near, seven base points of the pencil coincide with the seven points from [Embryonic](#).

An eighth base point is chosen to be on the curve from [Embryonic](#) which contains six of the seven points and is singular at the seventh point $(-2,1)$.

It can be seen that the ninth (Cayley-Bacharach) point is infinitely near the seventh, as all curves from the pencil are tangent there.