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Complex Descartes circle theorem.

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Summary: We present a short proof of the Descartes circle theorem on the “curvature-centers” of four mutually tangent circles. Key to the proof is associating an octahedral configuration of spheres to four mutually tangent circles. We also prove an analog for spheres.

Classification: G75

Keywords: Descartes circle theorem; octahedral configuration of spheres; spheres

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