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A central configuration is a special arrangement of masses in the  $n$ -body problem where the gravitational force on each body points toward the center of mass. Central configurations lead to homothetic and homographic periodic solutions, and play a crucial role in understanding the topological structure of the integral manifolds. Here we strive to classify all four-body convex solutions (i.e., the bodies form a convex quadrilateral), with an eye toward configurations possessing some type of symmetry or special geometric property (e.g., co-circular, trapezoidal, kites, tangential, orthodiagonal, equidiagonal, bisecting diagonals). We find useful coordinates to describe the space and show that the set of all four-body convex central configurations is three-dimensional, a graph over three position variables. (Received September 22, 2017)