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Unlabeled Motzkin numbers

The n -th Motzkin number represents the number of configurations of nonintersecting chords connecting n labeled points on a circle. Assuming that the points are unlabeled and equally spaced along the circle, we compute the corresponding number of configurations of nonintersecting chords connecting them. We also compute the number of configurations that are not symmetric w.r.t. rotation of the circle by any nontrivial angle.