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Kazuyuki Enomoto* (enomoto_kazuyuki@rs.tus.ac.jp), Oshamambe, Hokkaido 049-3514, Japan. *The total absolute torsion of open curves in E^3 .*

The total absolute torsion of smooth curves in E^3 is defined as the total integral of the absolute value of the torsion. This notion is extended to piecewise smooth curves. We study the infimum of the total absolute torsion in a certain set of curves, where the endpoints, the osculating planes at the endpoints and the length are all prescribed. We show how the infimum is calculated from the boundary data. (Received April 05, 2014)