

1125-51-5

Tanvir Prince* (tprince@hostos.cuny.edu), 500 Grand Concourse, B 408, New York City, NY 10451. *Is there a Simpson's line for a quadrilateral?*

Given four lines in general position (none are parallel to each other, no three are concurrent – that is we have six different point of intersection in the plane), we show that there exist an unique point in the plane whose feet of the perpendicular to these four lines lie on a straight line.

This is an extension from the case of three line where any point on the circumcircle of a triangle has the property that the feet of the perpendicular to three sides of the triangle lie on a line. (Received May 02, 2016)