Semi-inscribed circles in a triangle

Radu Bairac

Abstract. This article analyzes circles with the following property: two sides of a given triangle are tangent to the circle and the circle has a joint point with the circle circumscribed to the triangle. We are going to call this kind of circles **semi-inscribed circles**. Every triangle has three semi-inscribed circles. For this particular type of circles we will establish new properties that you have not found yet in the mathematical literature.

Liceul Teoretic "Gaudeamus"
Str. Petru Zadnipru 14/3
2044 Chişinău, Republic of Moldova
E-mail address: bairac@yahoo.com