## ROMANIAN MATHEMATICAL MAGAZINE

In  $\triangle ABC$  the following relationship holds:

$$\frac{m_a}{\sin\frac{A}{2}} + \frac{m_b}{\sin\frac{B}{2}} + \frac{m_c}{\sin\frac{C}{2}} \ge \frac{a^2 + b^2 + c^2}{2r}$$

## Proposed by Nguyen Hung Cuong-Vietnam

## Solution by Tapas Das-India

Equality holds for A = B = C