

Štvorce

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Úloha 1. Four positive integers x, y, z and t satisfy the relations

$$xy - zt = x + y = z + t$$

Is it possible that both xy and zt are perfect squares?

Úloha 2. Determine if there exist five consecutive positive integers such that their LCM is a perfect square.

Úloha 3. Find all prime p numbers such that $p^3 - 4p + 9$ is perfect square.