Zadatak 36. U nekom je aritmetičkome nizu $a_1 + a_3 + a_5 + \ldots + a_{11} = 72$. Koliko je $a_1 + a_6 + a_{11}$?

Rješenje.

$$\begin{aligned}
&a_1 + a_3 + a_5 + \ldots + a_{11} = 72\\
&a_1 + a_1 + 2d + a_1 + 4d + \ldots + a_1 + 10d = 72\\
&6a_1 + 2d(1 + 2 + 3 + 4 + 5) = 72\\
&6a_1 + 30d = 72 \;/\; :6\\
&a_1 + 5d = 12\\
&a_1 + a_6 + a_{11} = a_1 + a_1 + 5d + a_1 + 10d\\
&\qquad = 3a_1 + 15d = 3(a_1 + 5d) = 3 \cdot 12 = 36.
\end{aligned}$$