

Problem december 2001

Bestäm alla positiva **heltal** x_1, x_2, \dots, x_8 som löser systemet

$$\begin{cases} (x_1 + x_2 + \dots + x_8)^2 = x_1 x_2 \dots x_8 \\ 2(x_1 + x_2 + \dots + x_8) = x_1^2 + x_2^2 + \dots + x_8^2 \end{cases} .$$