Shudert Id; 18203485,

Multiphication by Vector

$$(5 \times 7) + (4 \times 11) + (3 \times 10) + (2 \times 23)$$

 $(9 \times 7) + (7 \times 11) + (6 \times 10) + (5 \times 23)$
 $(3 \times 7) + (9 \times 11) + (12 \times 10) + (15 \times 23)$
 $(22 \times 7) + (18 \times 11) + (16 \times 10) + (10 \times 23)$

$$35 + 44 + 30 + 46 = 155$$

 $63 + 77 + 60 + 115 = 315$
 $21 + 99 + 120 + 345 = 585$
 $154 + 198 + 160 + 230 = 742$

$$\begin{bmatrix} 5 & 4 & 3 & 2 \\ 9 & 7 & 6 & 5 \\ 3 & 9 & 12 & 15 \\ 22 & 18 & 16 & 10 \end{bmatrix} \times \begin{bmatrix} 7 & 7 \\ 111 \\ 100 \\ 23 \end{bmatrix} = \begin{bmatrix} 1557 \\ 315 \\ 585 \\ 742 \end{bmatrix}$$