

Daniel guesses that any 2×2 matrix A , where $A \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} A$, must be a combination of $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ and $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$. In other words, it must be

$A = s \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} + t \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ for some numbers s and t . James wants to

challenge this, since he sees that $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}^2$ produces the same

product $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}^3$ when multiplied on either side. Help Daniel by finding

s and t so that $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}^2 = s \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} + t \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$.

$$s=2, t=5$$

$$\begin{bmatrix} 7 & 10 \\ 15 & 22 \end{bmatrix} = \begin{bmatrix} s & 0 \\ 0 & s \end{bmatrix} + \begin{bmatrix} t & 2t \\ 3t & 4t \end{bmatrix}$$

$$\begin{bmatrix} 7 & 10 \\ 15 & 22 \end{bmatrix} = \begin{bmatrix} s+t & 2t \\ 3t & s+4t \end{bmatrix}$$

$$+ 7 = s + t$$

$$+ 10 = 2t \quad \leftarrow t=5$$

$$+ 15 = 3t$$

$$+ 22 = s + 4t$$

$$7 = s + 5 \quad \leftarrow s=2$$

Matrices Word Problems And Solutions

J Rink



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