- 1. What is the product of matrices A and B, where A = [1 2; 3 4] and B = [5 6; 7 8]?
- 2. If matrix C is the product of matrices D and E, where D = [2 5; 7 4] and E = [9 6; 7 8], what is the value of C?
- 3. If matrix F is the product of matrices G and H, where $G = [1\ 2\ 3; 4\ 5\ 6]$ and $H = [7\ 8; 9\ 10; 11\ 12]$, what is the dimension of matrix F?
- 4. What is the product of matrices I and J, where $I = [1\ 2\ 3;\ 4\ 5\ 6]$ and $J = [7\ 8;\ 9\ 10;\ 11\ 12]$?
- 5. If matrix K is the product of matrices L and M, where $L = [1 \ 2; 3 \ 4]$ and $M = [5 \ 6 \ 7 \ 8]$, what is the value of K?
- 6. If matrix N is the product of matrices O and P, where $O = [1 \ 2; \ 3 \ 4; \ 5 \ 6]$ and $P = [7 \ 8 \ 9]$, what is the dimension of matrix N?
- 7. What is the product of matrices Q and R, where $Q = [1\ 2\ 3\ 4; 5\ 6\ 7\ 8]$ and R = $[9\ 10;\ 11\ 12;\ 13\ 14;\ 15\ 16]$?
- 8. If matrix S is the product of matrices T and U, where $T = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}$; 7 8 9] and $U = \begin{bmatrix} 10 & 11 \\ 12 & 13 \\ 14 & 15 \end{bmatrix}$, what is the value of S?