$$D = \begin{bmatrix} 1 \\ 0 \end{bmatrix}, \quad V = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$U = \begin{bmatrix} 0 \\ 0 \end{bmatrix}, \quad V = \begin{bmatrix} 1 \\ -1 \end{bmatrix}$$

$$U = \begin{bmatrix} 2 \\ 3 \end{bmatrix}, \quad V = \begin{bmatrix} 4 \\ 2 \\ 1 \end{bmatrix}$$

$$U = \begin{bmatrix} 0 \\ 3 \end{bmatrix}, \quad V = \begin{bmatrix} 4 \\ 2 \\ 1 \end{bmatrix}$$

$$U = \begin{bmatrix} 0 \\ 1 \end{bmatrix}, \quad V = \begin{bmatrix} 0 \\ 2 \\ 3 \end{bmatrix}$$

$$U = \begin{bmatrix} 0 \\ 1 \end{bmatrix}, \quad V = \begin{bmatrix} 0 \\ 2 \\ 3 \end{bmatrix}$$

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$$U = \begin{bmatrix} 0 \\ 1 \end{bmatrix}, \quad V = \begin{bmatrix} 0 \\ 2 \\ 3 \end{bmatrix}$$

$$w = \begin{bmatrix} 221 \\ 1 \\ 3y \end{bmatrix}, \quad u = \begin{bmatrix} 2 \\ 0 \\ 1 \end{bmatrix}, \quad v = \begin{bmatrix} -1 \\ 1 \\ 2 \end{bmatrix}$$

$$221 + 1 + 6y = 0 \quad \text{older}$$

$$x = \begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix}, \quad y = -\frac{1}{15}$$

$$u = \begin{bmatrix} 1 \\ 3 \\ -5 \\ 4 \end{bmatrix} \quad v = \begin{bmatrix} 2 \\ -3 \\ 4 \end{bmatrix} \quad u \cdot v = 2 - q - 20 + 4 = 723$$

$$||u||^{2} = |49 + 25 + |6| = 51$$

$$||v||^{2} = 4 + q + /(1 + 1) = 30$$

(050 = 33 = 35mp ; 10 to)

8/01/25 53.

(1) = 5i+nj+3k

4

9

(1)
$$u = (1, 2, -3)$$
, $v = (3, 4, -1)$, $v = (2, -1, 5) = 11) = (6)$

(2)
$$N=(1,1,3), V=(1,-2,-4), N=(4,1,5)=(2)=0$$