Step-1

4764-1.4-59E AID: 124

$$A = eye(3) = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

Given that

$$V = (3;5)^1 = (3 \ 4 \ 5)^1 = \begin{pmatrix} 3 \\ 4 \\ 5 \end{pmatrix}$$

And

Step-2

$$A*V = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 3 \\ 4 \\ 5 \end{pmatrix} = \begin{pmatrix} 3 \\ 4 \\ 5 \end{pmatrix} = (345)^{1}$$

Since using matrices multiplication or using MATLAB commands

Step-3

$$V^{1}*V = (3 \ 4 \ 5) \begin{pmatrix} 3 \\ 4 \\ 5 \end{pmatrix}$$
$$= (3*3+4*4+5*5)$$
$$= (50)$$

Since using matrices multiplication or using MATLAB commands

Step-4

In MATLAB commands if we ask for V^*A it shows error.