

National 5 Maths
SQA 2024 Paper 1
Question 4

Given $\mathbf{a} = \begin{pmatrix} 3 \\ 4 \\ -1 \end{pmatrix}$ and $\mathbf{b} = \begin{pmatrix} 5 \\ 3 \\ 2 \end{pmatrix}$, find the resultant vector $3\mathbf{a} + \mathbf{b}$.

Express your answer in component form.

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Answer:

$$\begin{pmatrix} 14 \\ 15 \\ -1 \end{pmatrix}$$