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$-M + 2N = 10a_x - 4a_y + 8a_z + 16a_x + 14a_y - 4a_z = (26, 10, 4)$

Solution:  $\hat{u} = \frac{1}{\sqrt{26^2 + 10^2 + 4^2}}(26, 10, 4)$

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