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chapter given the vectors  $4\mathbf{a}_y + 8\mathbf{a}_z$  and  $8\mathbf{a}_x + 7\mathbf{a}_y + 2\mathbf{a}_z$  find: unit vector in the direction of  $2\mathbf{n}$ .  $2\mathbf{n}$   $10\mathbf{a}_x + 4\mathbf{a}_y + 8\mathbf{a}_z$   $16\mathbf{a}_x + 14\mathbf{a}_y + 4\mathbf{a}_z$  (26, 10, thus (26, 10, (0.92, 0.36, 0.

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### Electromagnetics Problems and Solutions

1.1. Given the vectors  $\mathbf{M} = -10\mathbf{a}_x + 4\mathbf{a}_y - 8\mathbf{a}_z$  and  $\mathbf{N} = 8\mathbf{a}_x + 7\mathbf{a}_y - 2\mathbf{a}_z$ , find: a) a unit vector in the direction of  $-\mathbf{M} + 2\mathbf{N}$ .  $-\mathbf{M} + 2\mathbf{N} = 10\mathbf{a}_x - 4\mathbf{a}_y + 8\mathbf{a}_z + 16\mathbf{a}_x + 14\mathbf{a}_y - 4\mathbf{a}_z = (26, 10, 4)$

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