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This page intentionally left blank. Physical Constants. Quantity. Value. Electron charge Electron mass Permittivity of free space Permeability of free space Velocity of light. $\epsilon = (1.602\ 177\ 33 \pm 0.000\ 000\ 46) \times 10^{-19}\ \text{C}$ $m = (9.109\ 389\ 7 \pm 0.000\ 005\ 4) \times 10^{-31}\ \text{kg}$ $0 = 8.854\ 187\ 817 \times 10^{-12}\ \text{F/m}$ $\mu_0 = 4 \dots$

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1.1. Given the vectors $M = -10a_x + 4a_y - 8a_z$ and $N = 8a_x + 7a_y - 2a_z$, find: a) a unit vector in the direction of $-M + 2N$. $-M + 2N = 10a_x - 4a_y + 8a_z + 16a_x + 14a_y - 4a_z = (26, 10, 4)$

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D3.2 (a). D =? at point P(2,-3,6) Q A = 55mC at point Q(-2,3,-6) now D = 0 E = Q R P Q / (4 | R P Q | 3) R P Q = (2 - (-2)) ^ a x + (-3 - 3) ^ a y + (6 ...

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