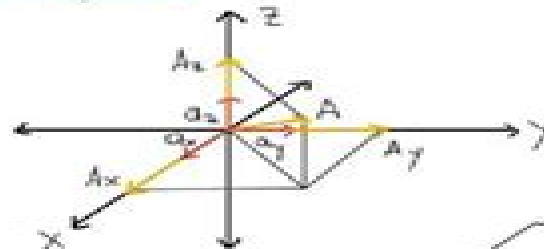


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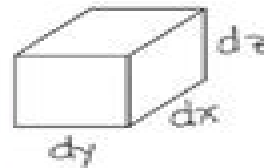
VECTOR ANALYSIS

Cartesian Coordinate System



Given vector:

$$A = A_x a_x + A_y a_y + A_z a_z$$

Differential volume dv : $dx dy dz$ 

$$|A| = \sqrt{A_x^2 + A_y^2 + A_z^2} \quad \rightarrow \text{magnitude of } A$$

$$\text{Unit vector in direction of } A = \frac{A}{|A|}$$

Sample Problem 1:

Given the two vectors: $r_A = -a_x - 3a_y - 4a_z$ and $r_B = 2a_x + 2a_y + 2a_z$ and point $C(1, 3, 4)$. find: (a) R_{AB} ; (b) $|r_A|$; (c) a_A ; (d) a_{AB} ; (e) a unit vector directed from C toward A .

Solution:

$$a) R_{AB} = r_B - r_A = 2a_x + 2a_y + 2a_z - (-a_x - 3a_y - 4a_z)$$

$$R_{AB} = 3a_x + 5a_y + 6a_z$$

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