

CHAPTER 1

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 $-\mathbf{M} + 2\mathbf{N}$,

$$-\mathbf{M} + 2\mathbf{N} = 10\mathbf{a}_x - 4\mathbf{a}_y + 8\mathbf{a}_z + 16\mathbf{a}_x + 14\mathbf{a}_y - 4\mathbf{a}_z = (26, 10, 4)$$

Thus

$$\mathbf{a} = \frac{(26, 10, 4)}{|(26, 10, 4)|} = \underline{(0.92, 0.36, 0.14)}$$

b) the magnitude of $5\mathbf{a}_x + \mathbf{N} - 3\mathbf{M}$:

$$(5, 0, 0) + (8, 7, -2) - (-30, 12, -24) = (43, -5, 22), \text{ and } |(43, -5, 22)| = \underline{48.6}$$

c) $|\mathbf{M}||2\mathbf{N}|(\mathbf{M} + \mathbf{N})$:

$$|(-10, 4, -8)| |(16, 14, -4)| (-2, 11, -10) = (13.4)(21.6)(-2, 11, -10) \\ = \underline{(-580.5, 3193, -2902)}$$

1.2. Given three points, $A(4, 3, 2)$, $B(-2, 0, 5)$, and $C(7, -2, 1)$:

a) Specify the vector \mathbf{A} extending from the origin to the point A .

$$\mathbf{A} = (4, 3, 2) = \underline{4\mathbf{a}_x + 3\mathbf{a}_y + 2\mathbf{a}_z}$$

b) Give a unit vector extending from the origin to the midpoint of line AB .

The vector from the origin to the midpoint is given by

$$\mathbf{M} = (1/2)(\mathbf{A} + \mathbf{B}) = (1/2)(4 - 2, 3 + 0, 2 + 5) = (1, 1.5, 3.5)$$

The unit vector will be

$$\mathbf{m} = \frac{(1, 1.5, 3.5)}{|(1, 1.5, 3.5)|} = \underline{(0.25, 0.38, 0.89)}$$

c) Calculate the length of the perimeter of triangle ABC :

$$\text{Begin with } \mathbf{AB} = (-6, -3, 3), \mathbf{BC} = (9, -2, -4), \mathbf{CA} = (3, -5, -1).$$

Then

$$|\mathbf{AB}| + |\mathbf{BC}| + |\mathbf{CA}| = 7.35 + 10.05 + 5.91 = \underline{23.32}$$

1.3. The vector from the origin to the point A is given as $(6, -2, -4)$, and the unit vector directed from the origin toward point B is $(2, -2, 1)/3$. If points A and B are ten units apart, find the coordinates of point B .

With $\mathbf{A} = (6, -2, -4)$ and $\mathbf{B} = \frac{1}{3}B(2, -2, 1)$, we use the fact that $|\mathbf{B} - \mathbf{A}| = 10$, or

$$|(6 - \frac{2}{3}B)\mathbf{a}_x - (2 - \frac{2}{3}B)\mathbf{a}_y - (4 + \frac{1}{3}B)\mathbf{a}_z| = 10$$

Expanding, obtain

$$36 - 8B + \frac{4}{9}B^2 + 4 - \frac{8}{3}B + \frac{4}{9}B^2 + 16 + \frac{8}{3}B + \frac{1}{9}B^2 = 100$$

or $B^2 - 8B - 44 = 0$. Thus $B = \frac{8 \pm \sqrt{64 + 176}}{2} = 11.75$ (taking positive option) and so

$$\mathbf{B} = \frac{2}{3}(11.75)\mathbf{a}_x - \frac{2}{3}(11.75)\mathbf{a}_y + \frac{1}{3}(11.75)\mathbf{a}_z = \underline{7.83\mathbf{a}_x - 7.83\mathbf{a}_y + 3.92\mathbf{a}_z}$$

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