#### 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 -M + 2N.

$$-\mathbf{M} + 2\mathbf{N} = 10\mathbf{a}_x - 4\mathbf{a}_y + 8\mathbf{a}_z + 16\mathbf{a}_x + 14\mathbf{a}_y - 4\mathbf{a}_z = (26, 10, 4)$$
 Thus 
$$\mathbf{a} = \frac{(26, 10, 4)}{|(26, 10, 4)|} = \underline{(0.92, 0.36, 0.14)}$$

b) the magnitude of 5a<sub>v</sub> + N - 3M;

$$(5,0,0)+(8,7,-2)-(-30,12,-24)=(43,-5,22)$$
, and  $[(43,-5,22)]=48.6$ .

c) (MH2N)(M + N);

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

- Given three points, A(4, 3, 2), B(-2, 0, 5), and C(7, -2, 1);
  - a) Specify the vector A extending from the origin to the point A.

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

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

The unit vector will be

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

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

Begin with AB = (-6, -3, 3), BC = (9, -2, -4), CA = (3, -5, -1). Them

$$|AB| + |BC| + |CA| = 7.35 + 10.05 + 5.91 = 23.32$$

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 100

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