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A. Maths. I(B)

Unit 2

Chapler.

the Point in space.

(1) (starz) ia la-z (1,1,1), (-2,4,1), (-1,5,5), (2,2,5)

Solution. MH, A(1,1), B(-2,4,1), C(-1,5,5),
D(2,2,5) Kas dis à 21106 &1

 $AB = \int (1+2)^2 + (1-4)^2 + (1-1)^2 = \int 9+9 = \int 18 = 35$

 $BC = \int (-2+1)^2 + (4-5)^2 + (1-5)^2 = \int 1+1+16 = \int 18 = 3\sqrt{2}$

 $CD = \sqrt{(-1-2)^2 + (5-2)^2 + (5-5)^2} - \sqrt{9+9} = \sqrt{18} = 3\sqrt{2}$

 $DA = \sqrt{(2-1)^2 + (2-1)^2 + (5-1)^2} = \sqrt{1+1+16} = \sqrt{18} = 3\sqrt{2}$

 $AC = \sqrt{(1+1)^2 + (1-5)^2 + (1-5)^2} = \sqrt{4+16+16} = \sqrt{36} = 6$

 $BD = \sqrt{(-2-2)^2 + (4-2)^2 + (1-5)^2} = \sqrt{16+4+16} = \sqrt{36} = 6$

: Yoll, AB = BC = CD = DA

dan idanol, AC = BD

: A,B, c,D Cas ar के शोधि है।

(2) हिरवाको । के विन् (५,-१,-६), (०,-७,-१०) तथा (१,-६,-६) समकोण समहिवादु मिसुन के शीर्ण है।

Solution. 41-1, A (4,-9,-6), B(0,-7,-10), C(1,-6,-6)

ालिमूज के शीर्व है।

 $AB = \int (4-0)^2 + (-9+7)^2 + (-6+10)^2 = \int 16+4+16 = 136 = 6$

BC = $\sqrt{(0-1)^2 + (-7+6)^2 + (-10+6)^2} = \sqrt{1+1+16} = \sqrt{18} = 3\sqrt{2}$

 $CA = \sqrt{(1-4)^2 + (-6+9)^2 + (-6+6)^2} = \sqrt{9+9} = \sqrt{18} = 3\sqrt{2}$

BC=CA

dul, BC2 + CA2 = AB2

ं ० АВС समहिवाह समको । गलिमुन है।