# NDA/NA

### National Defence Academy/Naval Academy Solved Paper 2013 (I)

#### Paper 1 (Mathematics)

The sum of the direction cosines of z-axis is

(a) 0 (c) 1

**050 373** 640 0

Explanation (c) We know that, the direction cosines of z-axis garrier (CO, CO, TO)

.. Sum of the direction cosines of z-axis

=0 + 0 + 1

What is the area of the triangle whose vertices are (0, 0, 0). (1, 2, 3) and (-3, -2, 1)?

(a) 3√5 sq romits (c) 6 sq units

(b) 6-5 sq units (d) 12 sq units

Explanation (a) Cartesian Method Let the vertices of the AARC BOS

> $A \rightarrow (x_1, y_2, z_3) \rightarrow (0.000)$  $B \rightarrow (x_2, y_2, x_2) \rightarrow (3.2, 3)$  $C \rightarrow (x_3, y_3, z_3) \rightarrow (-3, -2.5)$

Microsc.

$$\Delta_{x} = \frac{1}{2} \begin{vmatrix} x_{1} & y_{1} & 1 \\ x_{2} & y_{2} & 1 \\ x_{3} & y_{3} & 1 \end{vmatrix} = \frac{1}{2} \begin{vmatrix} 0 & 0 & 1 \\ 1 & 2 & 1 \\ -3 & -2 & 1 \end{vmatrix}$$
$$= \frac{1}{2} (-2 + 6) - \frac{4}{2} = 2$$

$$\Delta_{y} = \frac{1}{2} \begin{vmatrix} z_{1} & x_{1} & 1 \\ z_{2} & x_{2} & 1 \\ z_{3} & x_{3} & 1 \end{vmatrix} = \frac{1}{2} \begin{vmatrix} 0 & 0 & 1 \\ 3 & 1 & 1 \\ 1 & -3 & 1 \end{vmatrix}$$

$$= \frac{1}{2}(-9-7) = \frac{1}{2} \times (-90) = -5$$

$$\Delta_x = \frac{1}{2} \begin{vmatrix} y_1 & z_1 & 1 \\ y_2 & z_2 & 1 \\ y_3 & z_3 & 1 \end{vmatrix} = \frac{1}{2} \begin{vmatrix} 0 & 0 & 1 \\ 2 & 3 & 1 \\ -2 & +1 & 1 \end{vmatrix}$$

$$=\frac{1}{2}(2+6)=\frac{8}{2}=4$$

Required area of  $\triangle ABC = \sqrt{\Delta_x^2 + \Delta_y^2 + \Delta_y^2}$  $=\sqrt{(2)^2+(-5)^2+(4)^2}$  $=\sqrt{4+25+16}$ 

 $=\sqrt{45} = 3\sqrt{5}$  sq units

Vector Method Let the position vector of vertices of AABC A 101, 0, 00

OA = Oi + Oi + OkOB = i + 2j + 3kOC = -3i - 2i + k

AB = OB - OA-(1+2)+380= 600 + 01 + 0RO -1 + 21 + 38

(1, 2, 3)

$$AC = OC - OA$$
  
=  $(-3i - 2j + k) - (0i + 0j + 0k)$   
=  $-3i - 2j + k$ 

. Required area of AABC

$$= \frac{1}{2} |(2 + 6)i - (1 + 9)j + (-2 + 6)k|$$

$$= \frac{1}{2} \sqrt{64 + 100 + 16} = \frac{1}{2} \sqrt{180} = 3\sqrt{6} \text{ sq units}$$

What is the distance between the planes x - 2y + z - 1 = 0and -3x + 6y - 3z + 2 = 0?

(a) 3 units (c) 0

(d) None of these

Explanation (d) The given equation of planes

$$x-2y+z-1=0$$
  
and  $-3x+6y-3z+2=0$ 

-- 60

end 
$$-3x + 6y - 3z + 2 = 0$$
  
 $x - 2y + z - \frac{2}{3} = 0$ 

Since, both planes are parallel to each other, then distance between them.

$$\frac{\left|\frac{-2}{3} - (-7)\right|}{\sqrt{(1^2 + (-2)^2 + (7)^2}} = \frac{\left|\frac{-2}{3} + 1\right|}{\sqrt{1 + 4 + 1}} = \frac{1/3}{\sqrt{6}}$$

$$= \frac{1}{3\sqrt{6}}$$

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