Given the points A(2,4,7) and B(5,-2,3), find the equation of the line which is passing through points A and B

Find the equation of a plane which is passing through point A (6, -5, -3) and is perpendicular to vector $v_1 = (2, 4, -3)$

Equations of plane P are given as:

Plane P:
$$5x + 6y + 7z - 11 = 0$$

Find the equation of plane P after it has been translated by

$$dx = 6$$
, $dy = 9$, $dz = -2$

Equation of plane P after translation is:

Given the points A(0,6,3) and B(4,2,3), find the intersection point of line AB with the plane

$$2x + y - 5z - 7 = 0$$

Given the points A(3,-2,4) and B(5,1,9), and plane -2x-5y+3z-18=0

a. Find the parametric equation of line AB

Point A	Point B	Equation of line			
3.00	5.00	x(t)=	+2.0 1	+3.0	
-2.00	1.00	y(t)=	+3.0	-2.0	
4.00	9.00	z(t)=	+5.0 1	+4.0	

b. Find the intersection of line AB with the plane:

The intersection point is: x= ___ y= ___ z= ___

t	х	У	Z	
-0.500	2	-3.5	1.5	

Given points A(5, -1, 2) and B(-4, 1, 3). and C(4, 1, 2).

a. Find the equation of the plane which is passing through these points.

b. Find the equation of this plane after it has been rotated 90 degrees around z axis

Equations of plane P is given as: 4x - 5y + 3z + 10 = 0Find the equation of plane P after it has been translated by

$$dx=3$$
, $dy=1$, $dz=-5$

Given the equation of the line L :
$$egin{dcases} x(t) = 4t \ y(t) = -5t + 2 \ z(t) = 2t + 3 \end{cases}$$

Find the equation of this line after it has been rotated 90 degrees around the y axis.

Equations of plane P and line L are given as:

Plane P: 5x + 6y + 7z - 11 = 0

Line L:
$$\begin{cases} x(t) = 2 \\ y(t) = -3t \\ z(t) = 4t + 3 \end{cases}$$

a. Find the point of intersection of line L with plane P.

Intersection point of line L and plane p is: ______

b. Find the equation of plane P after it has been translated by

$$dx = 6$$
, $dy = 9$, $dz = -2$

Equation of plane P after translation is:

Given the points A(0,0,0) and B(8,6,0), find the sequence of rotation matrices to make the line AB to be aligned with the z axis:

Matrix #2			Matrix #1				

Given the points A(2,1,-4) and B(8,6,0), C(3,4,-5) and D(4,2,-3), Find the equation of line AB after it has been rotated 60 degrees around line CD.

Given the plane P as 4x-3y+5z+32=0 and two points A(8,2,5) and B(8,2,8). Find the equations of plane P after it has have been rotated =90 degrees around AB.

Show the matrices:		
Show the equation of the rotated plane P:		

Given the plane P as 4x-3y+5z+32=0 and two points A(8,2,5) and B(2,-3,6). Find the equations of plane P after it has have been rotated =90 degrees around AB.
Show all the matrices:
Show the equation of the rotated plane P:

1. Line AB and point C(8,2,-4) are on the same plane. Equation of the line is given as: $\begin{cases} x(t) = 4t - 1 \\ y(t) = 5t \\ z(t) = 3t - 7 \end{cases}$

Find the equation of this plane

Given two pints A(2,3,4) and B(14,6,8), find the sequence of transformations to bring the point A to the origin and make point B to be on the z axis.

Given point A (5,4 3) and plane P as: 2x-8y-3z-24=0.

a.	Find the equation of a line which is passing through point A and is perpendicular to plane P.
Faur	
Equ	ation of the line is:
b.	Find the equation of a line which is passing through point A and is parallel to plane P.
Equ	ation of the line is:

Given	trianole	ABC thre	e dime	nsional	right-har	ided (coordinate	system
OIVCII	urangic		c uninc	nsionai	112m-nai	iucu i	coordinate	S v StCIII.

A=(10,0,20), B=(40,20,0), C=(0,60,40)
Find the z coordinates of point P (10,15,?) which is on the same plane as triangle ABC
Z coordinate of point P is:

Given three points A(1,2,3) , B(2,4,0) , C(0,1,0) and line L
$$\begin{cases} x(t) = 9t + 8 \\ y(t) = t + 1 \\ z(t) = 9t + 6 \end{cases}$$

a. Find the equation of the plane P which is passing through points A, B, and C

Show the equation of plane P:

b. Find the intersection of line L with plane P

Show Intersection Point:

Given the equation of plane P: 3x - 6y + 8z + 1=0

Find the equation of this plane after it has been rotated 90 degrees around line AB

A=(1,2,3) B= (16,14,19)

χ+

y +

Positive direction for rotation is defined as counter-clock-wise looking from B to A.

Matrix #2		Matrix #1	1
Matrix #4		Matrix #3	
TYTECH IN II		1744CFTA 110	
	- 		
Matrix #6		 Matrix #5	
75		35	
Matrix #8		Matrix #7	1
the equation of the	rotated plane P:		
the equation of the	rotated plane r.		
		 	

z +

=0