1 .Reduce the equation 32x²+52xy-7y²-64x-52y-148=0 to the standard form.

2. Reduce the equation 5x²-24xy-5y²+4x-58y-59=0 to the standard form.

3. show that the four points are coplanar (-6,3,2)(3,-2,4)(5,7,3)and (-13,17,-1)

4 find the equation of the plane passing through the (-1,3,2)intersection of the plane x+3y+2z=5

3x+3y+2z=8.

5. find the distance of the point (-1,-5,-10)from the point of intersection of the line x-2/3=y+2/4=z-2/12 and the plane x-y+z=5.

6. find the distance of the point (1,1,1)from the point of intersection of the line x-1/2=y-1/3=z-1/6 and the plane 4x-3y+2z+6=0.