- 1. Find the equation of the line.
- (a) The line going thru (5,2,-1) and (1,-2,3)
- (b) The line is parallel to the line x = -1 + 2t, y = t, z = -t + 1 and has the point (-1,2,3)
- 2. Is the line thru (4,1,-1) and (2,5,3) parallel or perpendicular to the line thru (-3,2,0) and (5,1,4)?
- 3. Find the equation of the plane.
- (a) The plane thru the origin and the points (2,-4,6) and (1,3,-1).
- (b) The plane thru the point (1,-1,2) and perpendicular to the vector <1,-2,1>.
- (c) The plane thru the points (0,1,1), (1,0,1) and (1,1,0).
- (d) The plane thru the point (1,2,0) and parallel to the plane x-2y+3z=1.
- (e) The plane thru the point (6,0,-2) and contains the line x=4-2t, y=3+5t, z=-7+4t.