Q.1: Find a plane passing through the three points P(2,3,1), Q(-1,2,1) and R(3,2,1). Also find distance of S(4,3,-2) from this plane.

Q.2: Find equation of a line passing through P(1,2,-1) and parallel to the line passing through A(2,3,-1) and B(1,2,3).
Q.3: Find angle between two planes $2x - y + z = 1$ and $x + 2y + 3z = 2$. Also find line of intersection of these planes.