(1) Find the scalar projection and vector projection of \( \overrightarrow{a} = -i - 2j + 2k \) onto \( \overrightarrow{b} = 3i + j + 4k \).

(2) Find the area of triangle with vertices P(0,-2,0), Q(4,1,-2) and R(5,3,1).

(3) Find the symmetric equation of the line of intersection of the planes \( x - 2y + z = 1 \) and \( 2x + y + z = 1 \).