MATH 243: SECTION 12.5 GROUPWORK

(1) Find a parametric equation for the line which passes through the points $(4, 1, 3)$ and $(6, 2, 5)$.

(2) Find a cartesian equation for the plane which is perpendicular to the line from the previous question and which passes through the point $(0, 1, -1)$.

(3) Find a parametric equation for the line which is the intersection of the planes given by the equations $x + 2y + z = 1$ and $2x - y - z = 2$.