

FORENAME:		
SURNAME:		
	STUDENT NO:	

 $2018–19~\mathrm{Autumn}$

MATH115 Basic Mathematics - Homework 8

N. Course

DEADLINE: Tuesday 18 December 2018, 3pm

Exercise 36 (Lines).

(a) Find parametric equations for the line through the points P(1,2,3) and Q(5,4,3)

Exercise 37 (Planes).

(a) Find an equation for the plane passing through the points A(1,0,0), B(0,2,0) and C(0,0,3).

(b) Find parametric equations for the line which passes through the point P(2,4,5), and which is perpendicular to the plane 3x + 7y - 5z = 21.

(b) Find an equation for the plane which contains the following intersecting lines

LINE 1: x = t, y = 3 - 3t, z = -2 - t. LINE 2: x = 1 + s, y = 4 + s, z = -1 + s.

