Math 3298 Worksheet 1

Group members (2 to 4): _____

Only hand in one copy per group! This is due Friday, January 15th if you do not finish it in class.

(1) Find the implicit equation of the plane that passes through the points $(1, 1, 1)$, $(-1, 1, 1)$, and $(1, 2, 3)$ by using the cross product to generate a normal vector.

(2) Describe the intersection of the plane from part (1) with the line $(1, 1, 1) + t(1, 0, 0)$.