

MATH 251, Section _____
Thursday, Sept. 9, 2010

Quiz 2 (Section 11.4)
Dr. M. Vorobets

NAME (print): _____

No credit for unsupported answers will be given. No calculators. Clearly indicate your final answer

1. [3 pts.]

(a) Find **symmetric** equations for the line passing through the points $A(-1, 3, 2)$ and $B(2, 3, -1)$.

(b) Find the equation of the plane passing through the point $P(-1, 0, 4)$ and parallel to the plane $x + 2y + 5z = 3$.

2. [3 pts.] Find the intersection of the lines

$$L_1: \quad x = 1 + t, \quad y = 2 - t, \quad z = 3t$$

$$L_2: \quad x = 2 - s, \quad y = 1 + 2s, \quad z = 3 + s$$

3. [4 pts.] Find **parametric** equations of the line of intersection of the planes $x + y - z = 0$ and $2x - 5y - z = 1$.