MATH <b>126</b>	Quiz Oc		Name:
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No books, notes or graphing calcuators. Turn off your cell phones.

(5) 1. Determine whether the lines

$$L_1: \frac{x-1}{2} = \frac{y-3}{2} = \frac{z-2}{-1}$$
 and  $L_2: \frac{x-2}{2} = \frac{y-6}{-1} = \frac{z+2}{3}$ 

are parallel, skew or intersecting. If they intersect, find the point of intersection.

(5) 2. Find an equation of the plane through the origin, and the points (2, -4, 6) and (5, 1, 3).