King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 201 Section # 22 (111)
Quiz 2 (a)

Time: 20 minutes Marks: _____/9

Name: _____
ID #: _____ Serial #: _____

1. Let $L_1 : \ x = 1+7t \ , \ y = 3+t \ , \ z = 5-3t$
$L_2 : \ x = 4-t \ , \ y = 6 \ , \ z = 7+2t$

(a) Check whether the lines L_1 and L_2 are parallel or skew lines. **[4]**

(b) Find the distance between the lines L_1 and L_2. **[5]**

King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 201 Section # 22 (111)
Quiz 2 (b)

Time: 20 minutes Marks: _____/9

Name: _____
ID #: _____ Serial #: _____

1. Determine whether the lines L_1 and L_2 are parallel or intersecting. **[4]**

$L_1 : \ x = 1+4t \ , \ y = 5-4t \ , \ z = -1+5t$

$L_2 : \ x = 2+8t \ , \ y = 4-3t \ , \ z = 5+t$

2. Find the distance between the planes. **[5]**

$3x - y + 2z = 6$

$6x - 2y + 4z = -4$