

## 수시퀴즈 2차

1. If  $\vec{a} = \langle 2, -3, 4k \rangle$ ,  $\vec{b} = \langle k, 0, 1 \rangle$  and  $\vec{c} = \langle 0, -1, k \rangle$  find a value of  $k$  which guarantees that  $\vec{a}$ ,  $\vec{b}$  and  $\vec{c}$  are coplanar.
2. Line  $L_1$  is given by parametric equations,  
 $x = 2 + 3t$ ,  $y = -1 + 2t$ ,  $z = 3 - 4t$ .  
Line  $L_2$  is given by parametric equations,  
 $x = -1 - s$ ,  $y = -7 - 2s$ ,  $z = 6 + s$ .  
Determine parametric equations for the line that passes through

the intersection of lines  $L_1, L_2$   
and meets perpendicularly the  
line  $L_3$  given by symmetric  
equations,

$$\frac{x+1}{2} = \frac{y+2}{1} = \frac{z+2}{1}.$$