

1. $x = 1 + 2t$

$y = 1 + (-3)t$

$z = 2 - t$

2. $P_0 = (0, 1, 0)$

$V = \langle 1, 1, 1 \rangle \times \langle 1, 2, 3 \rangle = \langle 1, -2, 1 \rangle$

$x = t$

$y = 1 - 2t$

$z = t$