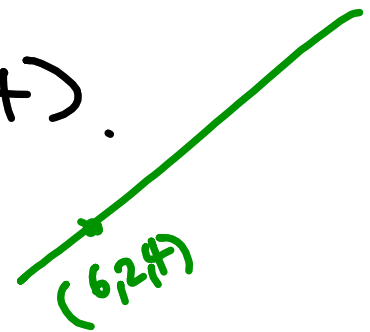


line  $l$  passes  $r(t) = (6, 2, 4) + t(4, -3, 5)$

$(2, 5, -1) \neq (6, 2, 4)$ .

List 2 other points on  $l$ .

✓  $(4, 3.5, 1.5)$   $(10, -1, 9)$   
 $(14, -4, 14)$



$$\begin{aligned}x &= 6 + 4t \\y &= 2 - 3t \\z &= 4 + 5t\end{aligned}$$

parametric

$$\frac{x-6}{4} = \frac{y-2}{-3} = \frac{z-4}{5}$$

symmetric

$$y = 2x - 5 \quad (0, -5)$$
$$\downarrow \quad \quad \quad \langle 1, 2 \rangle$$

vector

para.

Sym.

$$r(t) = \langle 0, -5 \rangle + t \langle 1, 2 \rangle$$

$$x = \frac{y+5}{2}$$

$$x = t$$

$$y = 2t - 5$$