

L

$$(0, -1, 2)$$

$$\mathbf{r}_0 = -\mathbf{j} + 2\mathbf{k}$$

z

O

x

y

$$\mathbf{v} = \mathbf{i} + 3\mathbf{j}$$

$$t\mathbf{v} = t\mathbf{i} + 3t\mathbf{j}$$

$$P = (t, -1 + 3t, 2)$$

$$\mathbf{r} = \mathbf{r}_0 + t\mathbf{v} = t\mathbf{i} + (-1 + 3t)\mathbf{j} + 2\mathbf{k}$$