The line segment from $\mathbf{r}_0 = 9\,\mathbf{i} + \mathbf{j} + 2\,\mathbf{k}$ to $\mathbf{r}_1 = 7\,\mathbf{i} + 6\,\mathbf{j} - \mathbf{k}$ is

$$
\begin{aligned}
\mathbf{r}(t) &= (1-t)\,\mathbf{r}_0 + t\,\mathbf{r}_1 = (1-t)(9\,\mathbf{i} + \mathbf{j} + 2\,\mathbf{k}) + t(7\,\mathbf{i} + 6\,\mathbf{j} - \mathbf{k}) \\
&= (9\,\mathbf{i} + \mathbf{j} + 2\,\mathbf{k}) + t(-2\,\mathbf{i} + 5\,\mathbf{j} - 3\,\mathbf{k}), \quad 0 \le t \le 1.
\end{aligned}
$$

The corresponding parametric equations are $x = 9 - 2t$, $y = 1 + 5t$, $z = 2 - 3t$, $0 \le t \le 1$.