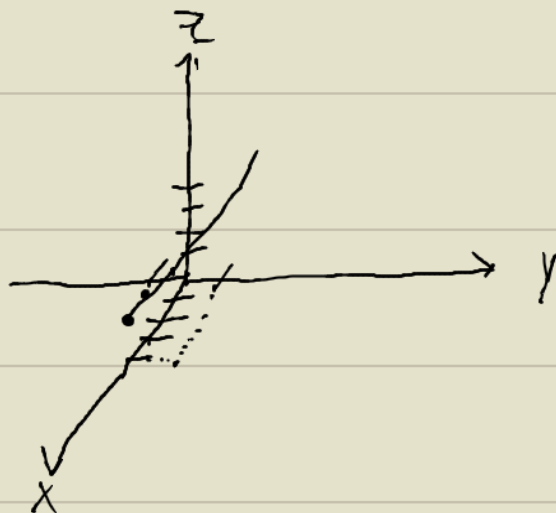


$$11. \vec{F}(t) = (t+2)\vec{i} + (t-1)\vec{j} + (2t)\vec{k}$$



$$\begin{array}{l} t=0 \\ \underline{\quad} \\ 2\vec{i} - \vec{j} + 0\vec{k} \\ \langle 2, -1, 0 \rangle \end{array}$$

$$\begin{array}{l} t=1 \\ \underline{\quad} \\ \langle 3, 0, 2 \rangle \end{array}$$

$$\begin{array}{l} t=2 \\ \underline{\quad} \\ \langle 4, 1, 4 \rangle \end{array}$$

$$12. \vec{r}(t) = t\vec{i} + 2\sin(t)\vec{j} + 3\cos(t)\vec{k}$$