

[0-2-2 | 0]

At 12:00 pm, a spaceship is at position $\begin{bmatrix} 3\\2\\4 \end{bmatrix} km \text{ away from the origin with respect to some 3 dimensional co}$ ordinate system. The ship is travelling with velocity $\begin{bmatrix} -1\\2\\-3 \end{bmatrix} km/h \text{ What is the location of the spaceship after 2}$ hours have passed? $\begin{bmatrix} -2\\4\\-1 \end{bmatrix} \qquad \qquad \text{posisi awal} = \{3,2,4\} \\ \text{velocity} = \{-1,2,-3\}$ setelah 2 jam berarti (-2,4,-6) $\begin{bmatrix} 2\\4\\1 \end{bmatrix} \qquad \qquad \text{berati posisi akhir} = \{3-2,2+4,4-6\} = \{1,6,-2\}$ $\bullet \qquad \begin{bmatrix} 1\\4\\1 \end{bmatrix}$