ATENSIDEN

FISIKA

KINEMATIKA 2D & 3D

POSISI & PERPINDAHAN

NO. 3

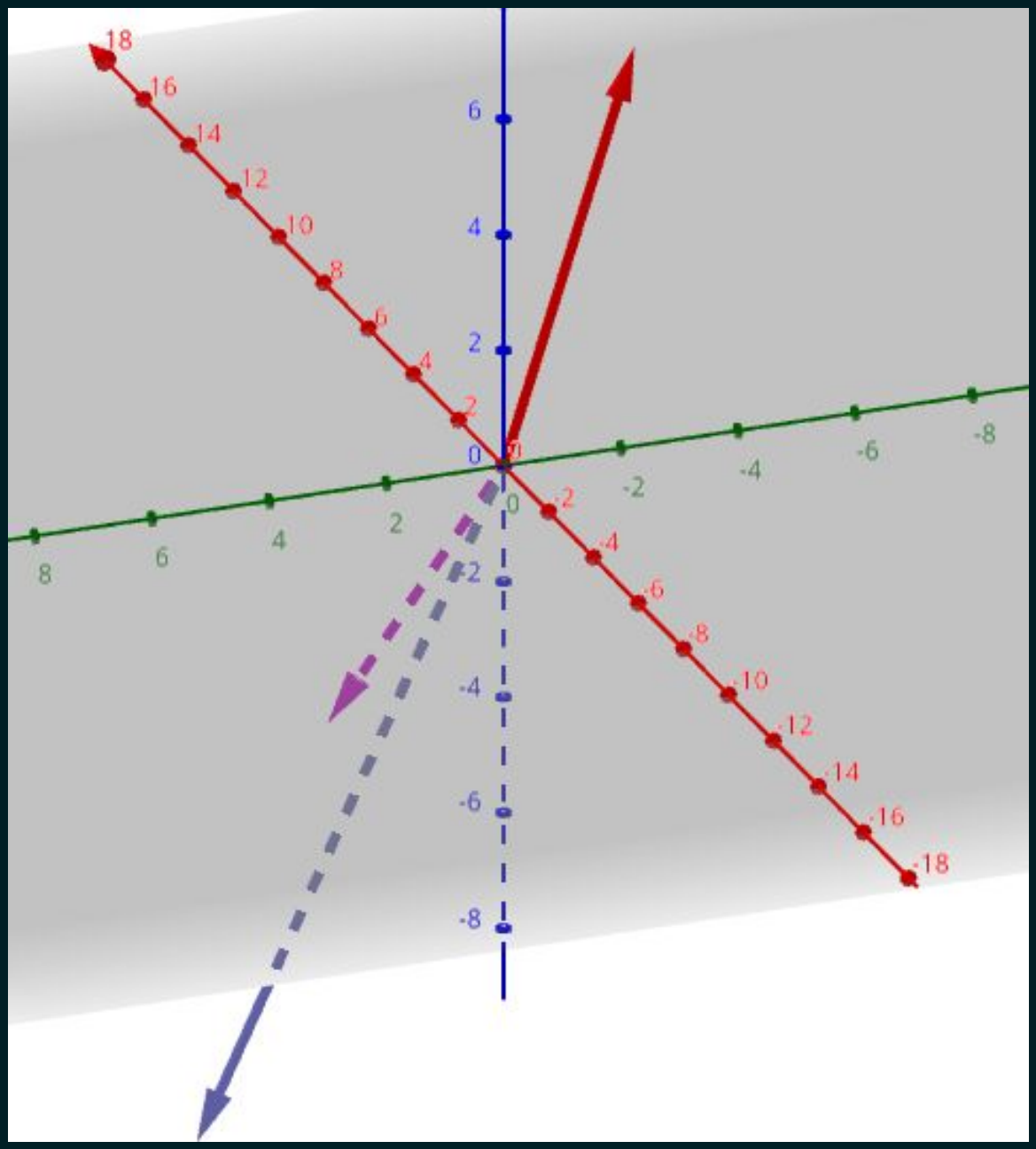
- Diketahui
  - Vektor perpindahan benda (2, -3, 6) m
  - Vektor posisi akhir benda (0, 3, -4) m
- Ditanya
  - Vektor posisi awal benda tersebut
- Solusi

$$\overrightarrow{\Delta r} = \overrightarrow{r_2} - \overrightarrow{r_1}$$

$$\overrightarrow{r_1} = \overrightarrow{r_2} - \overrightarrow{\Delta r}$$

$$\overrightarrow{r_1} = \begin{bmatrix} 0 \\ 3 \\ -4 \end{bmatrix} - \begin{bmatrix} 2 \\ -3 \\ 6 \end{bmatrix}$$

$$\overrightarrow{r_1} = \begin{bmatrix} -2 \\ 6 \\ -10 \end{bmatrix} \mathbf{m}$$



- Merah, vektor perpindahan
- Biru, vektor posisi awal
- Ungu, vektor posisi akrhir

SUMBER:
Halliday, D., Resnick, R., & Walker, J. (2013). *Fundamentals of physics*. John Wiley & Sons.