FISIKA
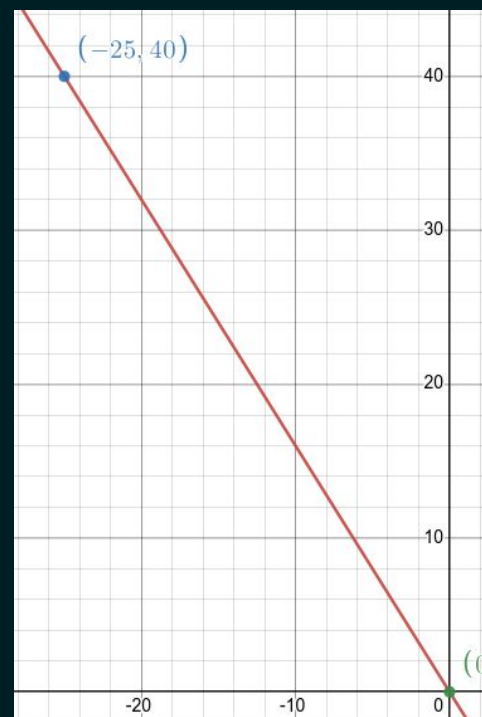
VEKTOR

KOMPONEN VEKTOR

NO. 3

•3 SSM The x component of vector $\vec{A}$ is
-25.0 m and the y component is $+40.0$ m.
(a) What is the magnitude of $\vec{A}$? (b) What is the angle between the
direction of $\vec{A}$ and the positive direction of x?

Problem 2.

- **Diketahui**
  - A_x = -25 m
  - A_y = 40 m
- **Ditanya**
  - **Besar A**
  - **Sudut antara A dengan sb-x positif**
- **Solusi**

$$\left|\vec{A}\right| = \sqrt{(A_x)^2 + (A_y)^2}$$

$$= \sqrt{(-25)^2 + (40)^2}$$

$$= 47.17 \text{ m}$$

$$\theta = 180 + \arctan\left(\frac{40}{-25}\right)$$

$$= 180 - 58$$

$$= 122°$$

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