SECTION 1.1
EXERCISE #31

1.1.31 Find the vector from point $(-1, 3)$ to point $(4, 2)$ in $\mathbb{R}^2$. Draw it.

Solution:

Well, the vector from $(x_1, y_1) = (-1, 3)$ to $(x_2, y_2) = (4, 2)$ is

$$\vec{v} = [x_2 - x_1, \; y_2 - y_1]$$

$$= [(4) - (-1), \; (2) - (3)]$$

$$= \boxed{[5, \; -1]}.$$

SO: