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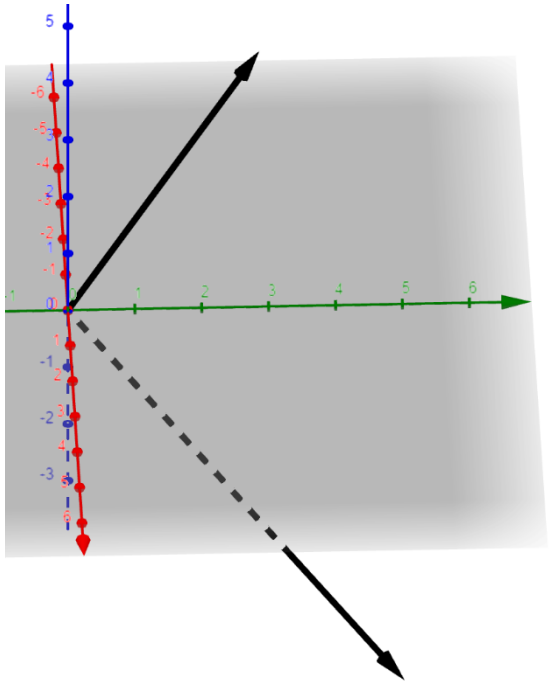
Opgave 473

$$\vec{a} = \begin{pmatrix} -4 \\ 3 \\ 2 \end{pmatrix}$$
$$\vec{b} = \begin{pmatrix} 1 \\ 5 \\ -6 \end{pmatrix}$$

$$\vec{a} + \vec{b} = \begin{pmatrix} -4 \\ 3 \\ 2 \end{pmatrix} + \begin{pmatrix} 1 \\ 5 \\ -6 \end{pmatrix}$$
$$\vec{a} + \vec{b} = \begin{pmatrix} (-4) + 1 \\ 3 + 5 \\ 2 + (-6) \end{pmatrix}$$
$$\vec{a} + \vec{b} = \begin{pmatrix} -3 \\ 8 \\ -4 \end{pmatrix}$$



$$|\vec{a} + \vec{b}| = \sqrt{x^2 + y^2 + z^2}$$
$$|\vec{a} + \vec{b}| = \sqrt{(-3)^2 + 8^2 + (-4)^2}$$
$$|\vec{a} + \vec{b}| = \sqrt{89}$$
$$|\vec{a} + \vec{b}| = 9.43$$

$$P_{pilpunkt} = (x + 1; y + 3; z + 2)$$
$$P_{pilpunkt} = \big((-3) + 1; 8 + 3; (-4) + 2\big)$$
$$P_{pilpunkt} = (-2; 11; -2)$$